

How Cyberspace  
Changed Business  
Cards—p. 28

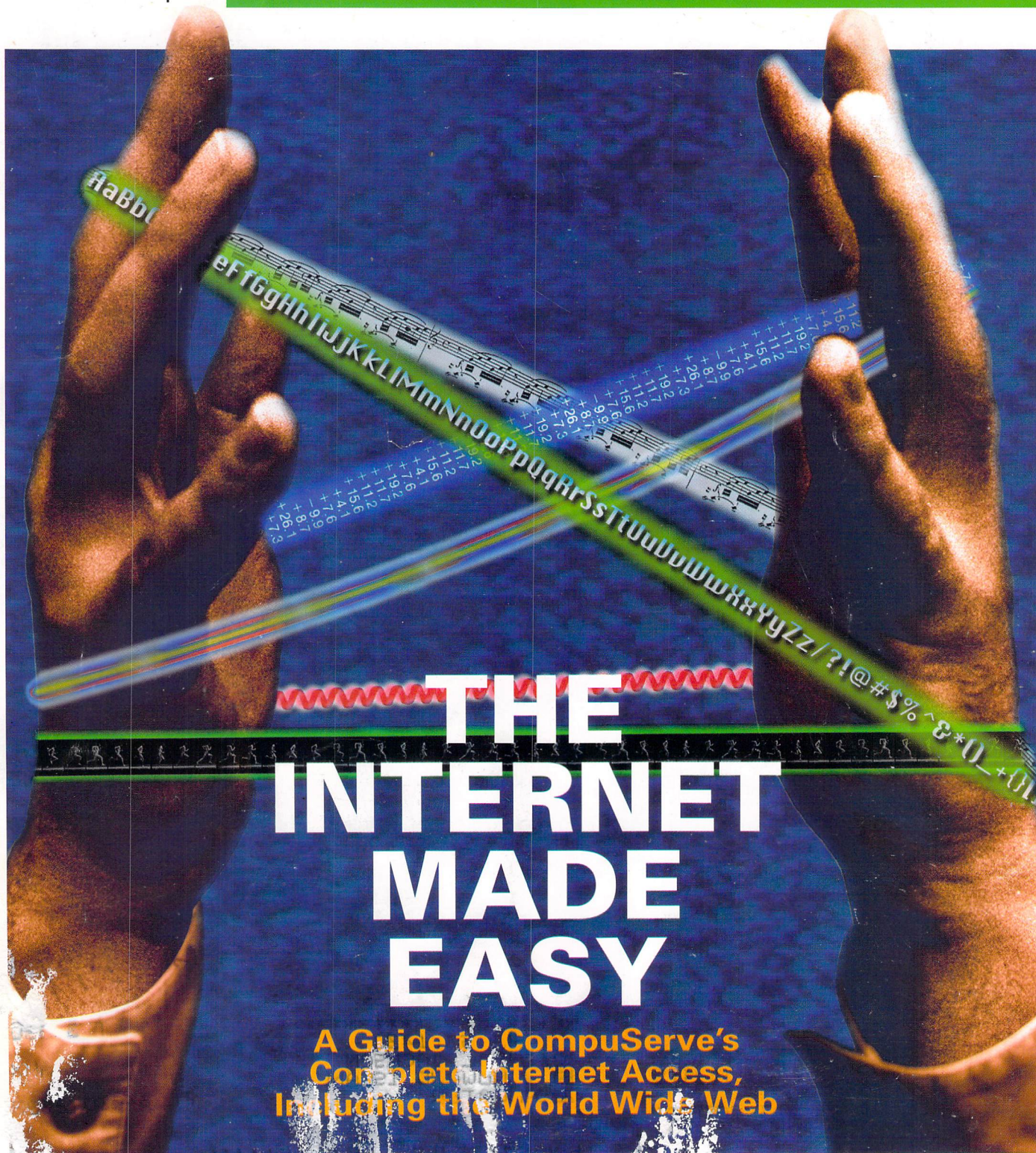
Here, Every Day Is  
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JUNE 1995

# COMPU SERVE

M A G A Z I N E



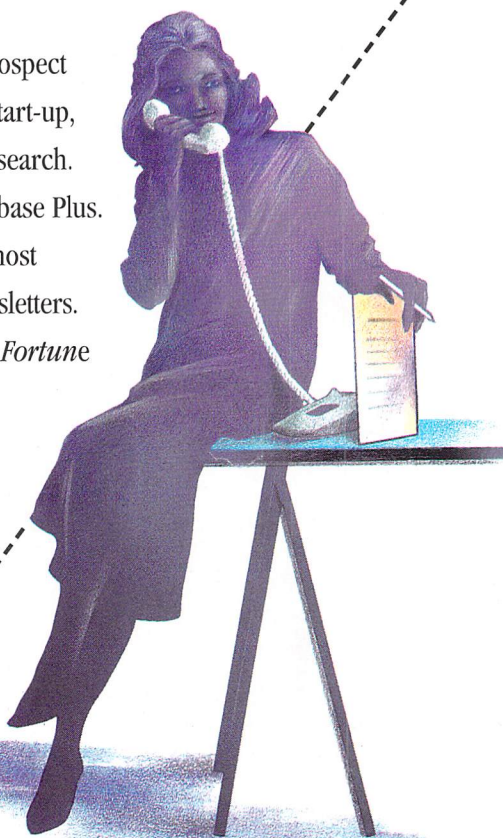


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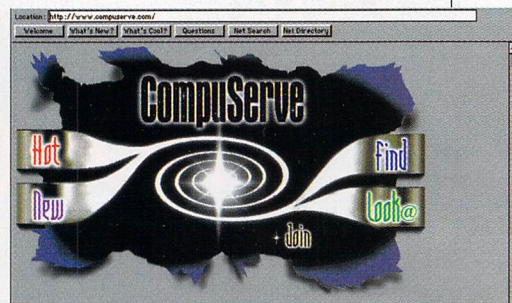
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You probably don't need to be told about the Internet: the global network defined principally by what its users do with it has been the subject of an avalanche of news-magazine reports, newspaper columns, TV shows, and immensely thick books. Even if they're not sure what the Net is, most people claim to have heard about it. With CompuServe's easy-to-use Internet access now complete, you don't have to wonder, or worry, anymore. Our extended cover story this month explains the basics of the Net's components (Usenet newsgroups, Telnet, FTP, the World Wide Web, and electronic mail) and takes you through the steps of using each. Features: CompuServe's new Internet pricing; Netspeak and Net history; notable downloads from the Internet forums; *Internet World* magazine's forum.



CompuServe's Internet home—p. 12

- 22 **The Wide World of Web:** An introduction to the newest and fastest-growing part of the Internet, the addictive multimedia fun house called the World Wide Web. Includes: Software you'll need; pointers to many of the Web's "pages."

### Personal Enterprise

#### 28 Exchange of Address

A small marketing tool with a big impact, the business card has undergone one major alteration—the addition of the card bearer's electronic-mail addresses. Businesspeople who put them on are telling their clients "I'm always available." Here's what that has meant for some CompuServers, along with info on how online advice, software templates, and forum message "cards" can help. Includes: Business-card-related files.

- 34 **Call of the Dialed:** Remote call forwarding? Distinctive ring? Work-at-homers feeling their way through the labyrinthine array of new telephone tech can find assistance in several online forums.



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Perhaps the biggest shareware-game hit of all time, id Software's violent Doom was the first to achieve a virtual-reality sense of immersion, the feeling that you really are moving through dark, mazelike halls in search of secret rooms and homicidal monsters. But what really made the game popular was its customization features: game editors and hundreds of user-created playing levels available online that let players change Doom's look, setting, music, and, most importantly, enemy (into Bill Clinton, Barney the Dinosaur, or their roommates). With: Highlighted Doom add-ons.

- 46 **A Forum for All Seasons:** Yes, you can even talk about the weather online in the new The Weather Channel Forum, where you can ask questions of the cable outlet's meteorologists and finally find out just what that forecast play-over music was.

## DEPARTMENTS

### Too Hot to Print

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## Dear Reader

Some say the Internet is changing the fabric of society—that it is to the '90s what the television was to the '50s, and thus commands a future of prominence and influence in our daily lives. In his new book, *Being Digital* (Alfred A. Knopf, 1995), *Wired* magazine columnist Nicholas Negroponte predicts that within 10 years Americans will spend more time surfing the Net than watching network television.

It could happen. Indeed, I am astounded daily at the far-reaching capabilities of the Internet. The other day, a press release arrived on my desk announcing that National Discount Brokers now accepts stock orders from its customers on the World Wide Web; another day brought a press release announcing the opening of the world's first rubber-stamp store on the Web. I've scanned the list of classic literature available in Project Gutenberg via FTP and talked with friends who trade used and rare books on Usenet. One day I found a disk slipped under my office door that was filled with Vietnamese potbellied-pig sounds, pulled from the Web. Is there anything that's not on the Internet?

Accessing the wealth of Internet information is now easier than ever for CompuServe members. With CompuServe's recent acquisition of Spry, the leading developer of Internet-access applications for the office, home, and publishing markets, the Information Service now provides a full complement of Internet offerings. No longer do you have to make long-distance calls to hook up with an access provider and spend hours configuring your config.sys and win.ini files to surf the Net. Just throw in a CompuServe NetLauncher disk, run the setup, and boom, you're riding the waves.

To help you get started, we put together a cover story that provides everything you need to know about accessing the Internet via CompuServe. Written by expert surfer Paul Gilster, author of four books about the Internet, most recently *The SLIP/PPP Connection* (John Wiley & Sons, 1995) and *The Mosaic Navigator* (John Wiley & Sons, 1995), "The Internet Made Easy," starting on page 12, gives it to you straight—information about Usenet, FTP, Telnet, and the World Wide Web. Also, you'll find a treasure of helpful files from the Internet forums and an incredible list of Web sites, courtesy of senior writer Chris Galvin.

If you're looking for more than words, however, watch for *The Internet Unlocked*, a joint-venture video from Osprey Film Productions Inc. and CompuServe. The video not only shows how to get on the Internet via the CompuServe Information Service but also runs the gamut of Internet capabilities, including the exciting but generally unknown ones—for example, I-Phone, whereby you can talk to someone via the Internet and your computer's sound system. An advantage to this video over Osprey's prior release, *The Internet Video*, is that it describes access to the Net using graphical interfaces instead of UNIX text-based commands. Planned release date for *The Internet Unlocked* is this month. Watch What's New for information on where to order it online.

\* \* \*

For a long time, ZiffNet and ZiffNet/Mac have posted the current week's articles from *PC Week* and *MacWEEK* in their respective forums so automated access programs, such as OzCIS and NavCIS, could download the news for economical offline reading. Many CompuServe members have grown accustomed to gathering ZiffNet news in this way and thus may not be aware that the same news is available free of connect-time charges on the main ZiffNet menu. Select the option Computing News (Free), or simply GO NEWREF to access the articles. And while you're there, check out the free daily news, a feature recently added to ZiffNet's computing reportage, in an effort to keep you updated on the fast-paced computer world. Remember that ZiffNet carries an additional membership fee.

\* \* \*

Starting with the April issue, we began uploading *CompuServe Magazine* articles to Online Today (GO OLT). Click on the CompuServe Magazine option on the main menu and you'll be guided to the monthly publications.

Kassie Rose  
Editor



## Software Bugs

Although "Attack of the Swarming Bugs" (April, p. 22) mentioned most sources of useful information on computer-software glitches, it left out an important one, the Read Me file. Because of the inevitable time lags of the printing process, these files contain more up-to-date details than manuals, particularly on installation problems.

These files used to be hidden away on the program disks so that only the knowledgeable were aware of them. Now a lot of programs draw attention to them and often include an icon for the file. The catch is that you can't discover workarounds for installation bugs until installation is complete.

It's a good idea, therefore, to get into the habit of looking at the Read Me file before starting installation. Search for a file with Read Me in the title; these can be either simple ASCII text files (which can be read with a text editor like Notepad in Windows or the program's own reader) or Windows Write documents. Once it's found, print out the file; then you can easily refer to it while you are trying to get the program to work instead of reloading it or trusting to memory. A little extra effort at this stage may save a lot of frustration later.

Richard Williams  
London, England  
74101,624

## Letters

Chandler Townsend's letter in the April issue implied that shareware authors do not provide promised support and update information to their registered users. I want to reassure your readers that Mr. Townsend's experience is the exception when dealing with shareware authors.

As a shareware author, I'm very sorry that Mr. Townsend has had this experience in his shareware dealings. The Association of Shareware Professionals (look for ASP in file descriptions) has specific guidelines for its members' performance in supporting their users and provides an Ombudsman who will work with users to resolve problems.

I am a registered user of more than 20 shareware programs and have found that the support offered by these authors is outstanding; they have often made small changes in a program for me to accommodate a particular need I have.

Dick Bryant  
Open Windows  
Colorado Springs, Colorado  
75236,3243

Chandler Townsend, in his recent letter to the editor (April 1995), raises a very good point regarding shareware: the wide variation in levels of support, commitment, and quality among the numerous authors releasing shareware programs.

The Association of Shareware Professionals, the largest professional organization of the shareware industry, has more than 1,500 members, the majority of whom are software authors and publishers. The ASP, in turn, represents only a small fraction of the entire shareware industry.

While Mr. Townsend's experience is lamentable, it should not be used as an indictment of the literally thousands of authors creating and marketing shareware programs.

The ASP requires its author members to stand behind their support promises. The ASP Ombudsman, whose address and CompuServe User ID number are published in every ASP author's program, exists to resolve disputes and problems. For more information about shareware or the ASP, GO SHAREWARE.

Chuck Steenburgh  
President, Tay-Jee Software  
Member, ASP  
Lexington, Virginia  
72330,1776

## Racing Online

Thanks for the expanded coverage of the Motor Sports Forum in the March issue ("Vroom Lens," p. 42). I'd like to add that the just-created and thriving Motorcycle Forum (GO RIDE) focuses on motorcycling, pro racing, touring, and many other two-wheeled topics.

Tom Mueller  
Vice President, Sports Marketing  
American Motorcyclist Association  
Westerville, Ohio  
73324,2456

I appreciated the motor-sports article in the March issue but was disappointed there was no mention of motorcycles and motorcycle racing. I check the Motorcycle Forum every time I log on. As an engineer developing a revolutionary motorcycle design and a former racer and Grand Prix assistant, I find the news and information in this forum indispensable.

Robert Kover  
Honolulu, Hawaii  
72607,736

## CompuServe and FTP

I was quite tickled to receive my March issue of *CompuServe Magazine* and find the articles describing FTP and CompuServe's FTP interface.

I was disappointed in a couple of things, however. First, neither article, nor the WinCIM depiction of FTP services, gave any indication that FTP is an extended service. Second, having been born [in Bloomington, Indiana] and raised in what is known as the Hoosier State, I was amazed to discover the existence of a University of Indiana. Granted, I am a graduate of Indiana's land-grant university, but the school deserves to be identified by its correct name: Indiana University.

Mary Harting  
Churubusco, Indiana  
74001,1023

## Working From Home

The article "Working Your Way in the Alternative Office" (February, p. 10), about teleworking, was interesting but too biased toward the worker at home. In my opinion, teleworking has a lot more advantages for the employer than for the employee.

The company saves money by not having to rent office space or buy telephones and other business machines for employees, and doesn't have to connect their PCs over a network. In contrast, the employee has to pay rent for his workplace, drink his own coffee, and so on. Worse yet, the teleworker's pay is not based on the number of hours worked—because that cannot be controlled—but on performance. This is a big disadvantage for older and/or handicapped workers.

Teleworking also makes it easy for an employer to get the most work out of his employee without regard to unions and/or timetables. It is difficult for a company to tell an employee to work twice as many hours as he did before but very easy to double his workload.

Konstantin Articus  
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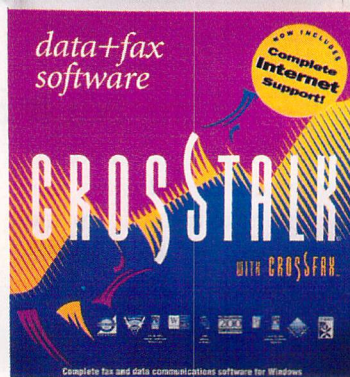
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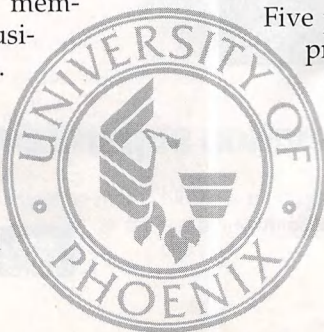
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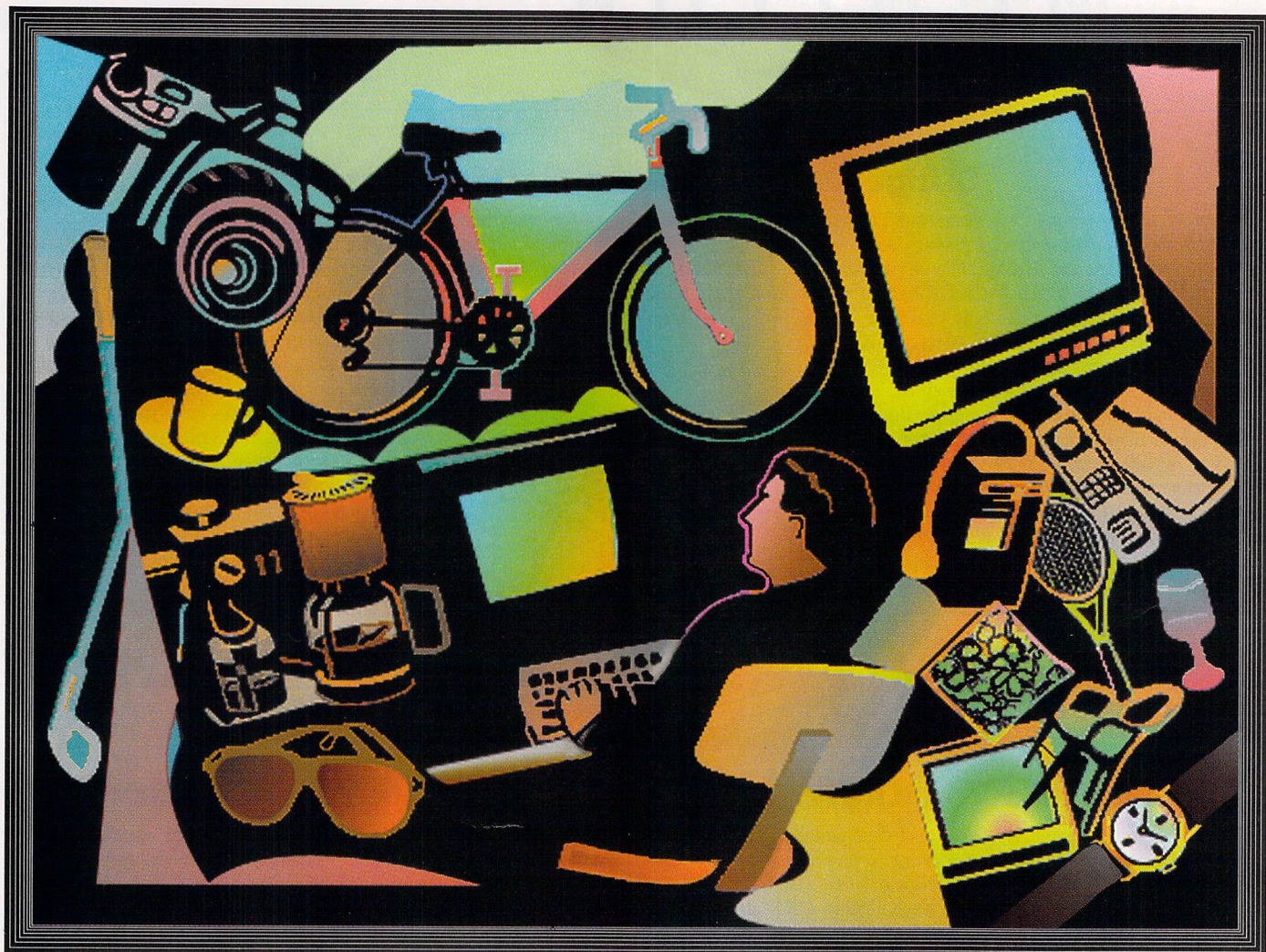
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# MONITOR

## Bridge Over Double-or-Nothing Waters

**N**ot even the Atlantic Ocean can stand in the way of hard-core bridge players looking for a match. Bridge Forum (GO BRIDGE) members in the United Kingdom and United States set out to play real-time, online bridge last January and successfully pulled it off. Partnerships have been forming at virtual card tables ever since.

"I thought [online bridge] would facilitate my reentry into the game after not having played for almost 20 years," says Jeff Schwartz, who plays hands from his home in Wyckoff, New Jersey. "Not only has it accomplished that, but it's enabled me to establish in a very short time special cyber-friendships with players in England and the U.S. That's made online play all the more rewarding."

Schwartz and the other members of this cross-continental bridge club use the DOS shareware program Cbridge and play a variation called "rubber contract"

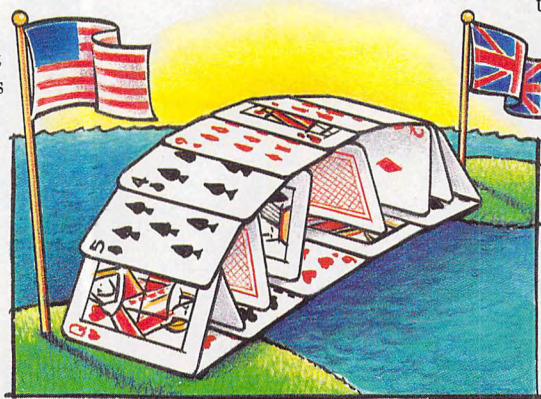
bridge in the forum's conference rooms. Cbridge deals the cards, conceals hidden hands, and "plays" the cards participants select from their hands. The author, R. Scott McGinnis, is a CompuServe member and ac-

tively supports the program online.

Tim Ackers, a forum staff member from Gloucester, U.K., was the first to master the technical aspects of getting the game up and running. He, Schwartz, and other experienced players assist interested forum newcomers, explaining game rules and helping them configure the software. After all, as

Schwartz points out, "the greater the pool of available players, the easier it will be to schedule games."

With the U.K. sitting five hours away from the U.S.'s eastern seaboard, members typically play on weekends. Ackers welcomes members from other countries to play—to participate, they need Cbridge in addition to their PC and modem. Read the file CBHELP.TXT in the forum's Library 12, "Hardware/Software," for more information about the game, including software requirements and where to find Cbridge in the forum.



## What Do You Know? CNN's News Quiz Tells You Just That

**Q**uick: Which Caribbean island gets its name from an Indian word for "crocodile"?

How many stories tall is the Empire State Building?

Who is the only NBA rookie ever to start on an NBA All-Star team?

If testing your knowledge of current events and getting a shot at some free CompuServe con-

nect time sounds like fun, you'll want to pay a visit to the CNN News Quiz (GO CNNQUIZ). Each Friday, CNN staffers post 10 questions with multiple-choice answers to the quiz area. Members can test their knowledge of big and little news "factoids" any time during the following week. The members with the most correct answers for that

week will be eligible for usage credit—either \$15, \$10, or \$5.

"I enjoy taking the quiz, although I don't think I've ever gotten above 50 percent," comments Mark Casazza, a CNN Forum (GO CNNFORUM) regular. "Knowing where I'm ignorant on current events keeps me from making a fool of myself."

Complete rules for the CNN

News Quiz can be found in Library 1, "General Information," of the CNN Forum in the file QUIZ.TXT. Look for each week's winners' list in the forum's Section 16, "Hard News Cafe." Winners will also be notified via CompuServe Mail.

BTW, the correct answers are: the Cayman Islands, 102 stories, and Grant Hill.

## Vegan Revolution: Where You'll Find a Meatless Burrito Online

**O**nce seen as the dish of fringe health fanatics, vegetarianism is increasingly popular in meat-eating Western nations. No wonder, then, that the Cooks Online Forum's (GO COOKS) vegetarian section grew so crowded that last February it sprouted the Vegetarian Forum (GO VEGETARIAN). "It's been fantastic. The day it opened we had 200 members, and that was by word of mouth," says Jenee Burns, lead sysop of both forums.

According to assistant sysop Chris Mitchell, a vegetarian since 1973, about 5 percent of the U.S. population is vegetarian, with a similar number in other Western nations. "[That] doesn't sound like a lot, but that's well over 13 million people just in [the U.S.]," he says.

Active and would-be vegetarians use the forum to discuss everything from pressure cookers to nori-roll recipes to non-leather shoes. Members review vegetarian restaurants and

discuss the differences between vegetarians (who don't eat meat, fish, or fowl), "ovo-lactos" (who may still consume eggs and milk or dairy products), and "vegans" (who eat none of these foods and also strive to use nothing derived from animals in any way, hence the leather-free footwear).

*Vegetarian Times*, the leading vegetarian magazine, and the Vegetarian Resource Group, a nonprofit organization aimed at educating the public about vegetarian diets, both have representatives answering questions and uploading files to the forum.

Popular fare in the libraries includes recipes for vegetarian sloppy joes, quiche, and burritos; a list of vegetarian items at fast-food eateries; tips on getting started as a vegetarian; vegetarian business-travel ideas; and a file naming online vegetarian resources from CompuServe, the Internet, and other commercial services.

MICHAEL LINLEY

CHRIS O'LEARY



## Screen Stars in Image and Shareware

Summer stargazers limited to simply wishing upon a star can broaden their nighttime horizons with new shareware programs available on ZiffNet. Designed to better acquaint novices with celestial bodies, these shareware programs do everything from naming the stars and constellations to providing cool wallpaper images.

SkyMap Windows Planetarium

(SKYMAP.ZIP) shows the sky as seen from anywhere on Earth at any date, complete with stars, planets, constellations, galaxies, and comets. A similar program for DOS users is SkyGlobe Planetarium

(SKYGLO.ZIP). It displays the planets, sun, moon, constellations—and about 29,000 stars.

To see the stars move across the sky, Planetarium (PLNETM.ZIP) offers DOS users real-time and accelerated animated views of the solar system and moons. These programs are all available in Library 11, "Science," in ZiffNet's PBS Home Forum (GO PBSHOME).



Beautiful sky graphics are available in Library 10, "Images—NASA," in ZiffNet's PBS Studio Forum (GO PBSSTUDIO). Among the most spectacular photos in the collection is one of the Earth and moon taken by the *Voyager* spacecraft (VGRETR.ZIP)—the first picture taken by a spacecraft to include both the Earth and moon.

Another beautiful photo shot by *Voyager 2* is one of Saturn and its rings (SATFCL.ZIP). Not to be outdone, the *Galileo* spacecraft took composites of the moon from about 350,000 miles away (GLMOON.ZIP), as well as a photo of both the Earth and moon in half-

shadow with the day/night delimiter clearly visible (GALERT.ZIP). In addition, there's a close-up of the planet Mars (MARSRD.ZIP) and a sunrise over Venus (CLMVN.ZIP).

ZiffNet is part of CompuServe's extended services and carries an additional membership fee. GO ZIFFMEM for details.

### WORLD UPDATE

## New Multiple-Language Forum Now Open

Talk to members around the world without the hindrance of language barriers in the World Community Forum (GO WCOMMUNITY). The forum makes use of CompuServe's machine-translation software, which facilitates native-language message exchange between English and French, German, and Spanish. The forum gives members the opportunity to meet and chat with others worldwide on topics such as travel, health, business, education, television and movies, sports, and current events, and contains sections for learning more about other regions of the world—their people, cultures, and languages.

A separate version of the forum is maintained in each language, and members can select the version for their own language. For example, to read and post messages in Spanish, select the Spanish version of the forum; to read and post messages in English, select the English version. The machine-translation software automatically collects messages from each of the forums, translates them, and posts the translations in the appropriate language forum. Translation between English and German, English and French, and English and Spanish is available.



The UK Recreational Forum (GO UKRECREATION) is where members discuss all types of recreational activities in the U.K., from how to win the U.K. Lottery to advice on where to get a drink in London after hours. The forum's 23 message and library sections include "Theatre/Films/Dance," "Walk/Hikes/Climbing," "Voluntary/Charity," "Pubs/Beer/Brewing," "Cars/Motoring," "Angling/Outdoor," and "History/Genealogy."



Three more CompuServe access numbers are available in France for Toulouse (61 71 49 55), Nice (92 29 00 16), and Lille (20 91 87 80). The CompuServe network in Western Europe is free of communications surcharges and is the most cost-effective way to access the Information Service. With the addition of these nodes, CompuServe provides access from five French cities, which also include Lyon and Paris.



Canadians and fans of things Canadian can visit the Canada Forum (GO CDNFORUM) for discussion of topics such as business, sports and recreation, travel, the arts, and Canada's role in world politics. The forum contains message sections for each Canadian province and territory, and a French-language section for French-speaking Canadians. Reuters Canadian News Clips (GO RTCANADA), another new service, features frequently updated news stories about Canada and is included in basic services.

## Online, a TIFF Is Not Some Petty Dispute

To most people, BMP, GIF, JPG, and PCX are no more than random sets of letters. But seasoned PC users know these combinations are actually graphics-file types.

No one is really sure how many PC file formats are floating about. An educated guess is that there are about two dozen in common use and more than 100 overall. In any case, format conversion is a leading topic in the Graphics Support Forum (GO GRAPHSUPPORT).

PC users run into graphics compatibility problems when they try to use a particular file in a program that doesn't provide support for the format. That's when a format-conversion program becomes a necessity. The Graphics Support Forum offers a wide range of converters in its Library 4, "Format Conversion." Here are some of the most popular:

► Graphic Workshop for Windows 1.1p—A shareware program that converts between 37 formats. It also allows users to print, view, dither, flip, rotate, scale, and perform other tasks and effects. GWSWIN.EXE (1,034,752 bytes).

► Graphic Workshop for DOS 7.0e—See above. GRFWRK.ZIP (539,708 bytes).

► GraphicConverter 2.0.6—A Macintosh shareware program that converts approximately 50 formats between Macintosh and Amiga, DOS, Windows, Atari, and UNIX files. The software also includes slide-show and image-manipulation features. GC206.SIT (429,056 bytes).

► Paint Shop Pro—A Windows shareware program that converts, displays, and prints images in 23 formats. PSP.ZIP (472,254 bytes).

## Monitor

Contributors: John Edwards, Michele D. Kinnamon, Paula Lovejoy, Tracy Mygrant



## Behind the Screens

with John Edwards



### Mirage of Inconvenience

Just the other day I walked into my local SuperWareHouse Plus computer superstore/home-repair center and spied copies of Microsoft New York on the shelf.

"Egad!" I shouted in a voice loud enough to momentarily stun an elderly gentleman who was quietly perusing the cover art on a Swimsuit Models of the World screen-saver package.

"Bill Gates has done gone and bought up my hometown!"

Seconds later I was relieved to see that the package simply contained a graphics add-on to the venerable Microsoft Flight Simulator program. But for one anxious moment I actually thought I might witness the bespectacled one move SoHo to Seattle, Red Hook to Redmond, and Bellevue to . . . uh, Bellevue. He's rich enough to do that, you know.

Anyway, my near-death experience made me think about all types of mislabeled, pointless, and unnecessary software. Not that Microsoft New York is any of these, of course. (Bless my on-screen buttons, obviously not.) But, hey, let's get a hook to hang this column on.

Take low-cost desktop-publishing software, for example. Why not just buy a word processor? Let's see, a budget DTP program lets you enter text into

columns, create headlines, add graphics, and print to most printers. A word processor lets you enter text into columns, create headlines, add graphics, and print to most printers. Hmm, I can't detect any difference. Low-cost desktop-publishing programs—the type that claim to be perfect for schools and clubs (which apparently have lower graphics standards than, say, General Motors)—are silly. Get rid of them.

Then there are dinosaur programs. One of these gems came bundled with my new multimedia PC. This particular program, complete with 3-D glasses, showed a mangy T-Rex (if a reptile can indeed have mange) and other assorted Jurassic characters. Ho-hum. If I want to look at digital fossils, I can watch the PC clearance sales on a TV home-shopping channel. Anyway, here's the beauty part: if we push all the dinosaur programs over

the brink of extinction, we'll also virtually eliminate the possibility of that repulsive purple pan-handler from PBS showing up on our displays.

I also have a point to pick with income-tax-preparation programs. It seems to me that if the U.S. government wants us to file timely, complete, and accurate tax returns, it ought to supply us with the software—gratis. Maybe toss in a computer and printer, too. After all, by filing our neatly printed or electronically filed forms we're making the government's job easier and saving it money. It bugs me.

Well, enough ranting for now. Hey! Isn't that a copy of Microsoft Space? My oh my, now he wants the entire universe!

*For more BTS gems by John Edwards, GO OLT-130. Edwards is a contributing editor of CompuServe Magazine. His CompuServe User ID number is 70007,412.*

# GO SHOWBIZ

## Tale From the Script: A Walk Down the Movie Writers' Block

In Hollywood, screenwriters are said to hold a rung on the prestige ladder somewhere below assistant director and slightly above best boy. But in Section 15, "Screenwriting," of the ShowbizMedia Forum (GO SHOWBIZ), both budding and established screenwriters can find plenty of professional support and respect from their colleagues.

Member Collin Chang feels that the section offers the kind of instruction and encouragement one might expect from a university film school. "The best thing about the 'Screenwriting' section is the occasional working pro who saunters down here to see how the natives are getting on," he says. "Another good thing is the multifaceted feedback you get from other writers, both aspiring and working, each hailing from his own ZIP code and viewpoint."

Member Stephen White points out that his bedroom/office in Plano, Texas, is a long way from Hollywood. "But with the section I have a virtual peer group I can learn from and occasionally instruct," he says. White adds that he accessed the section's com-

panion library to download a couple of text style guides and a template for writing scripts using Word for Mac. "I used all of these on a script, which I completed about a month ago. It's being produced by Geffen Pictures."

Member John E. Stith says he and collaborator John Kennedy wrote *User Hostile*, a feature-film screenplay, by sending CompuServe Mail messages back and forth. "The script has a director attached now, and we hope it'll start preproduction this year," he says. Stith adds that he and Kennedy are currently communicating online with the film's producer, who also has a CompuServe account. He observes that all of the cyberspace activities are appropriate, since *User Hostile* employs the world of online communications as a backdrop.

Stith adds that it's important that screenwriter "newbies" apply the same effort to writing that they would to any other career. "Learn to use words and how to spell them," he says. "Read extensively and write daily. Don't expect to sell early efforts."



IT'S NOT IF. IT'S WHEN.

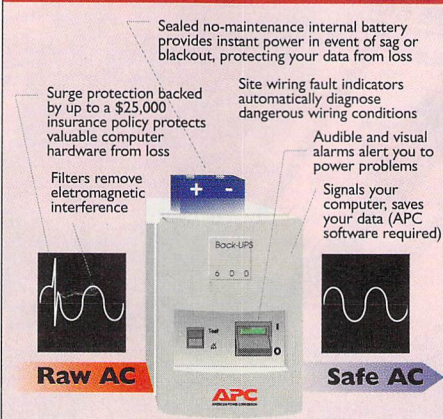
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Home office user Don Traux knows first hand about APC reliability: "It ought to be against the law to buy a computer without an APC Back-UPS 250. I recently had a direct lightning hit right outside the house...my computer never blinked."

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R. Morella, Westinghouse

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Craig Post, Comm. Tech.

"Before I purchased the UPS I had to put in at least two hard drives at \$1000. With APC products...no new hard drives in two years!"  
S. Foreman, LSP

## Solutions



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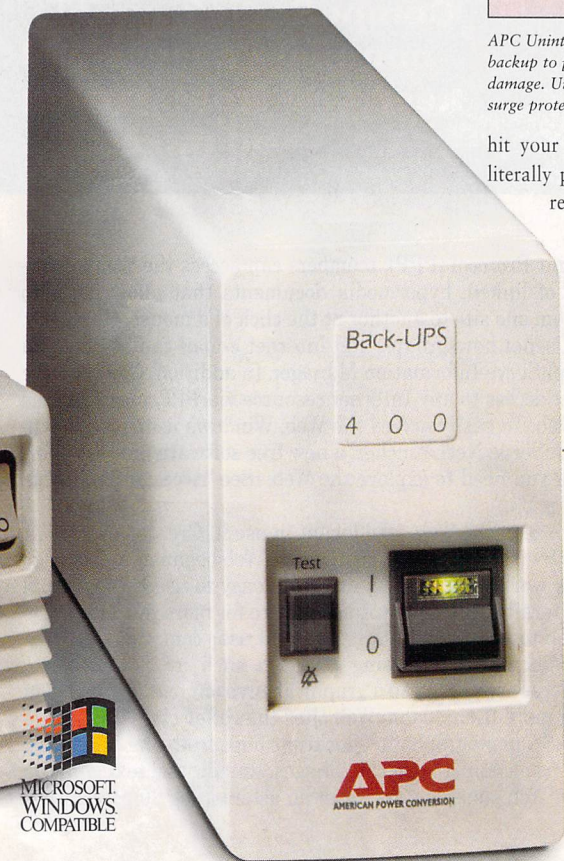
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# The Internet



**Pick an Internet resource—  
any resource—and  
CompuServe's simple,  
complete access will  
keep you from getting  
all mixed up.**

No one needs to be told that the Internet is redefining modern communications and research. Pick up virtually any newspaper or magazine and you'll find story upon story describing how more than 25 million computer users tap this global "network of networks" for unparalleled access to information. Once the exclusive province of government and university researchers, the Internet has become something of an information Nirvana, an enormous, multicultural library that's open all day, every day, to ordinary computer users.

Taking advantage of this amazing institution, however, requires some savvy. Users need to know not only how to get in the door but also which aisle to choose from a maze of thousands that will take them to the document they seek—whether it's the Gutenberg Project's full-text online version of *Moby Dick* or a Quicktime video of singer Tori Amos performing on a recent *Tonight Show*.

CompuServe continues to expand its services that simplify connection to, and interaction with, the Internet. Over the past year CompuServe has given members access to the Internet's forumlike newsgroups and made it possible to download files from Internet sites using the Net's native File Transfer Protocol. Now members can use their CompuServe connection to access remote computer databases using Telnet technology and explore the Internet's most-talked-about feature, the World Wide Web. Thanks to CompuServe's recent introduction

of Point-to-Point Protocol (PPP), members can access the Web's growing collection of linked, hypermedia documents that allow users to jump easily from one site to another at the click of a mouse. Currently, Telnet, FTP, Usenet newsgroups, and Internet e-mail can be accessed by using CompuServe Information Manager. In addition, CompuServe provides direct access to any Internet resource via PPP, including the World Wide Web. To easily access the Web, Windows users can download the CompuServe NetLauncher, a new free software product offering everything you need to explore the Web. (See "Accessing the Web, Step by Step," p. 25.)

Once you've seen the Web, you'll want to use it. Created in 1989 at CERN, a huge Swiss research laboratory, the Web began as a project to link physicists worldwide. But its intuitive, easy-to-use hypertextual design—you literally click on a word or picture for more information—caused the Web to spread beyond its original user community. By accessing the Web with a browsing program such as NetLauncher, Mosaic, or Netscape, you can tap a graphical environment in which you move between more than 30,000 Web sites that offer everything from archives of NASA photographs to Quicktime clips from *The Simpsons*. Many Web pages elegantly integrate images, sounds, and text, and the number of new Web pages is growing at an astonishing 20 percent per month.



by Paul A. Gilster

# Made Easy



RICO LINS

Does all this sound cool but intimidating? Don't worry, several CIS forums are ready to help. CompuServe's Internet New Users Forum is the first place to turn to for help when using the Internet through CompuServe. Whether it's the Web, file transfers, or Usenet newsgroups you have questions about, you'll find a community of members discussing the issues there. The Internet Resources Forum is more specific; think of it as a reference desk to the Internet's enormous library. Resources are categorized by subject in its libraries, from academic sites to technical information to business pages on the Web. In addition, related topics such as network security, Internet access software, and newsgroup mailing lists are regularly discussed. The Internet World Forum is an online supplement to *Internet World* magazine, where fans of the monthly print publication can interact with editors and download

*Paul A. Gilster is the author of The Internet Navigator (John Wiley & Sons, 1993), Finding It on the Internet (Wiley, 1994), and The Mosaic Navigator (Wiley, 1995). His CompuServe User ID number is 75300,2523.*

featured files and columns. And for a look at the Net's commercial opportunities, such as Web-oriented P.R. or questions about becoming an Internet service provider, the Internet Marketing and Publishing Forum is where professionals and entrepreneurs share tips and discuss the Net's potential.

Whether you take advantage of Point-to-Point Protocol or not, there's a wide range of activities CompuServe members can perform on the Internet. What began with electronic-mail linkages to the Net has expanded to include most basic Internet services. Best of all, Standard Pricing Plan members get their first three hours on the Internet free of connect-time charges every month. (See "An Overview of CompuServe's New Internet Pricing," p. 17.)

CompuServe's mission is to offer the "Internet made easy." Following is a more detailed review of how you can explore the Net through your existing CompuServe account.

## Point-to-Point Protocol

Before now, if you wanted to log onto the Web, you

## FEATURE

### Where to GO

File Transfer Protocol  
**GO FTP**

Internet Marketing and  
Publishing Forum  
**GO INETPUBLISH**

Internet New Users  
Forum  
**GO INETFORUM**

Internet Resources  
Forum  
**GO INETRESOURCE**

Internet Services  
**GO INTERNET**

Internet World Forum  
**GO IWORLD**

Point-to-Point Protocol  
**GO PPP**

Telnet  
**GO TELNET**

Usenet Newsgroups  
**GO USENET**



had to contact a local service provider, through whose network you could access the Internet by modem. By adding PPP access to its existing Internet gateway services, CompuServe has become a full-service Internet access provider. Using your existing User ID, password, and telephone number, you can access the Internet via a network connection that allows you to run the same interface software on your computer that most Internet users currently favor.

When information is sent over the Internet, it is divided into smaller pieces in transit and reassembled at a final destination. PPP allows computers to exchange these data "packets" with the Internet. To make PPP work with a modem, users need software known as a "TCP/IP stack" to handle the packing and unpacking of Internet data on their computer. Microsoft Windows users will find shareware programs, such as Trumpet Winsock, that handle this chore in the Internet Resources Forum (Library 4, "PC Internet S/W," WSK10B.ZIP and TWS20B.ZIP). Or, even easier for Windows users, the CompuServe NetLauncher can be downloaded to provide the TCP/IP stack with automated installation and connection features. It even comes bundled with Spry Mosaic, giving members one-button installation of a complete Web solution.

Macintosh mavens have the necessary MacTCP software built into the System 7.5 operating system (owners of previous versions need to purchase MacTCP from Apple or buy Adam Engst's *The Internet Starter Kit for the Macintosh* [Prentice Hall, 1994], which includes the software). OS/2 Warp users have TCP/IP support already built

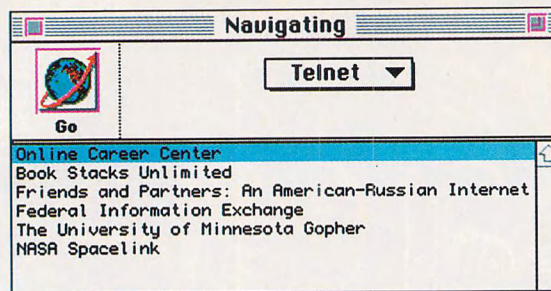
The System 7.5 operating system has built-in MacTCP software, which makes PPP work with a modem.

Domain	IP Address	Default
ns1.news.comhouse	174.149.44.41	<input checked="" type="radio"/>
ns2.news.comhouse	174.149.44.42	<input type="radio"/>

into their operating system, which includes a client program, Web Explorer.

The Internet is a lot like other aspects of computing in that, as people become more familiar with it, utility programs evolve to make it easier to use. Point-to-Point access, for example, requires that the TCP/IP software be precisely configured. CompuServe's Internet Dialer automatically inserts the correct values for Point-to-Point connection. The dialer works with any browser (such as Spry Mosaic) to make using CompuServe's network easier. With support through the Internet forums, tools like these ease the transition between CompuServe as a stand-alone source of information and its new position as a full-service Internet gateway.

The most common use of CompuServe's PPP service is to access the Web. To learn more about the PPP service option, GO PPP.



For Telnet practice, explore a List of Sites.

## FEATURE

### Telnet for Remote Log-on

Think of Telnet as your ability to log onto a remote computer and run programs on it. A Telnet session, for example, can be used to search the library catalog of a university on the other side of the world. Or you could query a database to pull up information about government grants, or the latest weather for your area.

If Telnet is a fascinating tool, it nevertheless creates certain challenges. First, you need to know the address of the computer you want to reach. A number of suggestions are posted in CompuServe's Telnet area for you to explore (GO TELNET takes you there—choose the List of Sites option). Second, you will often need a user ID and password at the remote site. People without an account at the remote computer are often allowed to log on with the ID "guest"; usually this does not require a password. In other cases, a site will present log-on information in an introductory screen.

When you GO TELNET, the menu that appears will also offer you background information, including the most common questions about the service. It's a good idea to print out this material and read through it before launching your first Telnet session; Telnet connections are "live," and you don't want to block others from using a site while you read instructional material.

### When you are ready to access Telnet, follow these steps:

- From the main Telnet screen, double-click on the Access a Specific Site option.
- In the Site Name box, fill in the address of the computer you want to reach.
- Click the OK button.
- You will receive a message alerting you to the fact that you are about to leave the CompuServe system. Press the Proceed button to continue onto the Internet.
- When the connection is made, enter the log-on ID and password at the remote site.

WinCIM 1.4 will place you automatically in VT100 terminal-emulation mode; MacCIM 2.4.2 also supports this mode. VT100 has become a standard way for a user's computer to be treated as if it were a local terminal on a main-frame machine via Telnet.

Bear in mind as you use your Telnet connection that you are working with software on the remote machine, not on CompuServe. The commands will usually be visible on-screen, but some systems are harder to navigate than others. If you get stuck, you can always use the control-escape sequence to exit (hold down the control key while you press the left-pointing bracket key). Doing so will return you to CompuServe. But first, make every effort to exit normally from the remote system using the commands provided in its menus.

### FTP for File Transfers

File Transfer Protocol is what you use to move files from one Internet site to another. The method bears only a surface resemblance to what you do in a CompuServe forum, where you find the file you want in a forum library and give



the appropriate commands to download it. With FTP, when you go through the CompuServe gateway, you connect to a remote site that is just one of thousands of computers accessible over the Internet. Network parlance refers to "anonymous FTP," which means that anyone can get into these sites with the log-on "anonymous." You then enter your e-mail address as your password to complete entry into the system.

Like the rest of the Internet, FTP offers no central repository of files. Nor is there a standard directory structure in FTP sites. Instead, users rely on individual site directories, downloadable lists of content that, at best, describe in a line or two what's available/archived for transfer. Directory style isn't consistent from site to site—what one system administrator places in an FTP directory called pub/windows another might locate in /windows/clients or whatever directory seemed appropriate at the time. But a little research can usually help you find the file you need. For example, the /pub directory is relatively common; it is a place where publicly accessible resources are most likely to be found, and hence the place to start for most searches. You'll also find files in the root directory (the one to which you log on), with names like Index or Read Me, that contain listings of files at the site and other information about file retrieval.

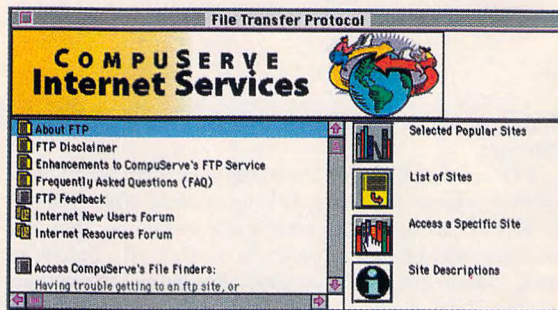
The Internet's FTP sites, like Web and Telnet sites, are specified through the Domain Name System; a typical site is oak.oakland.edu, where the first term, "oak," refers to a specific computer at the larger domain oakland.edu (the edu suffix tells us that this is an educational institution, in this case Oakland University in Rochester, Michigan). This site holds programs for a variety of computer platforms, but it is particularly strong in MS-DOS and Microsoft Windows software. Sites such as sumex-aim.stanford.edu and mac.archive.umich.edu are among the major repositories for Macintosh-related software.

How do you find sites to examine? The best way to begin is to GO FTP, where you will find an option marked Selected Popular Sites; if you click on this button, you will be presented with some of the major FTP destinations, which you can then reach by clicking on their icons. You can retrieve a longer list of FTP destinations by clicking on the List of Sites button. When you double-click on one of them, you will be presented with CompuServe's FTP access screen.

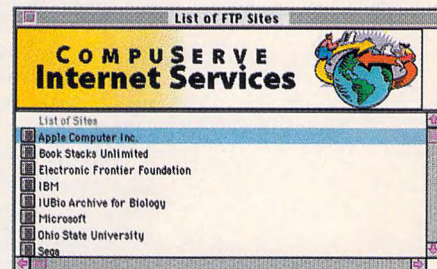
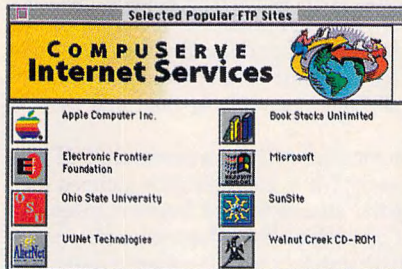
Many more FTP sites are available through directories of network information, such as Harley Hahn's *The Internet Yellow Pages* (Osborne/McGraw-Hill, 1995); there, you will be able to look up sites by alphabetical category. System administrators often specialize when they create an information collection; one site might emphasize programs and news about astronomy, while another might contain a collection of audio clips and text files about great composers. The Site Descriptions button on CompuServe's main FTP screen provides information about major sites.

**Here's how to use CompuServe's FTP gateway when you know a specific address.** For the example, let's use oak.oakland.edu. To access it, GO FTP and perform the following steps from the ensuing FTP menu:

- Click on the Access a Specific Site button.
- Fill in the site's Internet address in the Site Name field that appears in the dialog box; in this case, oak.oakland.edu. If you know which directory you want to go to in advance, you can fill in the directory field, but in most cases just leave it blank. You can change directories once you've accessed the site.



Visit the FTP main menu via GO FTP (left). Then access popular locations via Selected Popular Sites (bottom left) and others via a longer List of Sites (bottom right).



- Click on the OK button.
- Once the connection is made, you will be presented with an introductory screen. Click OK to move to the main FTP screen.

You have now accessed the remote site and are ready to move about in its directory structure. Onscreen, CompuServe will provide you with a window that contains the directory choices on the left and the files in the current directory on the right. You can double-click on any directory to which you want to move, and its files will then appear in the file box. Bear in mind that it can take time for a large directory to load, particularly when usage is high at a given site.

#### Here's how to retrieve a file via FTP:

- Click on the check box next to the file to select it for download.
- Click the Retrieve button.
- A dialog box will prompt you for the directory and file name under which you want to save the file on your disk. Verify that the choice is correct and click on the OK button.
- A box will appear showing you the progress of the file transfer. When the download is complete, click the Leave button to exit the site. You will be returned to CompuServe.

Files are made available in a variety of formats at FTP sites. Documents with an extension of \*.doc or \*.txt are almost always ASCII text files that can be read on any computer. Large programs are often compressed using PKWare's PKZip format; these files end in a \*.zip extension, a familiar sight to denizens of CompuServe's file libraries. Macintosh files are often found in compressed form, too; look for suffixes like hqx for BinHex, cpt, bin, and sea, all of which are common in CompuServe forums. Less familiar will be UNIX compression schemes with suffixes like tar, gz, and Z.

Decompression tools for these formats are found at most FTP sites, but the easiest route is to pick them up on CompuServe. The Internet Resources Forum contains file library sections for both Macintosh and IBM-compatible software, including decompression programs. Responsive to the needs of the growing number of Internet users, many freeware and shareware developers are now adding UNIX compression capabilities into their products. The enhanced StuffIt Expander does this for the Macintosh, as does



WinZip, a popular Windows-based package, for Windows machines.

FTP is a wonderful way to add to your collection of files, but there are several issues to keep in mind. When you enter an FTP session with a remote site, remember that you are tying up computer resources at that site. In many cases, system administrators will determine a maximum number of users who can access the site simultaneously. By taking one of these slots, you may be keeping someone else from getting in; therefore, run your file download as expeditiously as possible and exit. Reading text files while connected to the remote computer is not recommended; instead, download the file you want to read and view it offline.

You should also consider whether a particular FTP session is really necessary. While the Internet is jammed with files, the most popular shareware and freeware programs are also found in CompuServe's file libraries. Before using FTP for a file transfer, check to see if the file is available in one of CompuServe's forums. The PC File Finder and Macintosh File Finder, available on the FTP menu, can track down files in any forum, allowing you to concentrate your FTP work on programs and documents that can be found nowhere else.

### Usenet Newsgroups

Usenet is a collection of electronic newsgroups where people post opinions, recollections, diatribes, and reasoned arguments about almost any topic imaginable. CompuServe users will recognize the concept as similar to a forum—in both cases, people post messages and can read and respond to others'. But the similarities end there, for CompuServe forums are moderated, meaning that one or more system operators manage events; they even act as traffic cops when a particular discussion threatens to get out of hand. Usenet newsgroups are largely unmoderated, and both the tone of their talk and the quality of their information are completely determined by the participants.

There are other differences as well. Usenet newsgroups usually maintain no file libraries—how could they, considering that they reside on no single computer system but on machines distributed throughout the Internet? They are also organized in a different way than forums. In a forum, the major topic—say, photography—is broken down into a number of sub-topics, allowing people who want to focus on specific interests to go straight to the relevant material. On Usenet, rather than setting up sub-topics, new full-blown newsgroups branch off from the original one whenever there is sufficient interest in a more specialized discussion.

The Usenet model is hierarchical, with names separated by periods. Thus the newsgroup *rec.photo*, which

**The major hierarchies, from which the newsgroups branch, are these:**

- alt** The alternative groups, created to provide more freewheeling discussions than those found on the older newsgroups. Frank literary debate, for example, goes on in *alt.books.reviews*.
- rec** Newsgroups on recreational subjects, such as *rec.photo*, which looks at amateur photography.
- comp** Denotes computer discussions; *comp.sys.mac.comm*, for example, specializes in Macintosh communications issues.
- news** News about Usenet itself. An important group for newcomers is *news.announce.newusers*.
- sci** Discussions of the sciences. Newsgroups such as *sci.archaeology* study particular scientific disciplines.
- soc** Newsgroups devoted to social issues. Interested in current political happenings? Check out *soc.politics*.
- talk** Debate about controversial subjects. The environment is discussed in *talk.environment*.
- misc** Anything that doesn't fit into the other top-level hierarchies. Investing, for example, is discussed in *misc.invest*.

would be a general discussion of issues of interest to photographers under the broader heading "recreation," is joined by newsgroups like *rec.photo.advanced*, *rec.photo.darkroom*, and *rec.photo.marketplace*. You can subscribe to any or all.

GO USENET will take you to a menu to access these newsgroups. You will be able to subscribe to any newsgroup that interests you by choosing one of the top-level hierarchies, thereby calling up a list of the newsgroups available under each; the list can be scrolled, and you can use it to browse for newsgroup possibilities. A click on the check box next to a newsgroup and then on OK subscribes you to it.

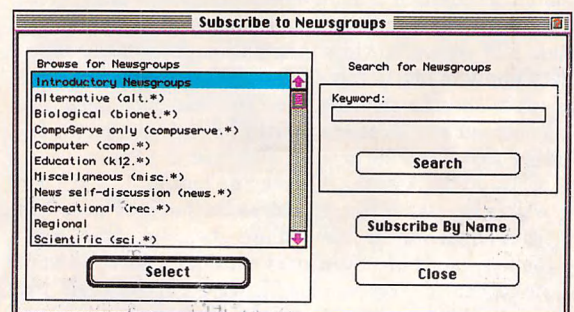
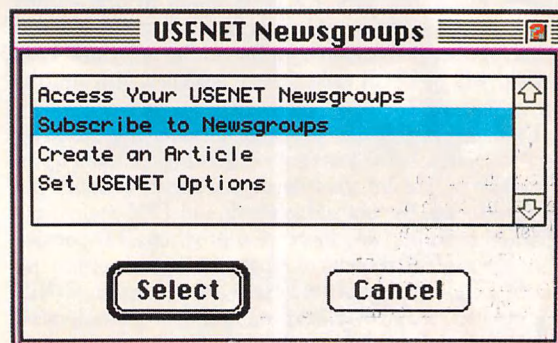
CompuServe's list of newsgroups includes many popular topics but doesn't include every one available; you can subscribe to a group that isn't listed by typing the newsgroup's name into the appropriate field in the available hierarchies.

**Suppose, for example, you want to subscribe to the *alt.internet.services* newsgroup, one of the best sources of background information about the Internet. Here's how to accomplish that through the CIM interface:**

- GO USENET.
- Double-click on Usenet Newsreader (CIM). The Usenet Newsgroups box will appear.
- Double-click on the Subscribe to Newsgroups item. A subscription box will appear.
- Click on the Subscribe by Name button.
- Enter the newsgroup name in the Newsgroup field.
- Click on OK to subscribe.

## FEATURE

To reach this menu (left), GO USENET and choose USENET Newsreader (CIM). Then, find newsgroups that interest you under Subscribe (right).





## An Overview of CompuServe's New Internet Pricing

The following is an overview of pricing for CompuServe's Internet Services, which include access to Usenet newsgroups, File Transfer Protocol, Telnet remote log-on, and Direct Internet Access (Dial PPP).

**Standard Pricing Plan:** In addition to unlimited use of basic services, the Standard Pricing Plan now includes three hours of access per month to CompuServe Internet Services free of connect-time charges, and a rate of \$2.50 per connect hour for Internet usage after the initial three hours. Any unused portion of the free hours expires at the

end of each month. The free hours and the rate for additional hours apply for usage at modem speeds of 28,800 bps and below.

**Internet Club:** Members who frequently use CompuServe to surf the Net can save money by joining the optional Internet Club. An additional monthly charge of \$15 provides an additional 17 free hours for a total of 20 hours of access per month, free of connect-time charges, to CompuServe's Internet Services, and includes a rate of \$1.95 per connect hour for usage in excess of the initial 20 hours. Any unused portion of the free hours

expires at the end of each month. These rates apply for usage at modem speeds of 28,800 bps and below. The \$15 fee applies the first month the member joins. To join via an online sign-up area, GO INTERNET.

CIS Internet Services are free of communications surcharges through CompuServe's network in the United States, Canada, and Western Europe. Supplemental network charges and monthly fees for access through other services still apply.

You must go through the subscription procedure before you can read Usenet messages. Having done so, you will need to return to the main Usenet menu to proceed.

### Here's how to read the current messages in the alt.internet.services newsgroup:

- Double-click on the Access Your Usenet Newsgroups item from the main Usenet menu.
- Highlight the alt.internet.services newsgroup.
- Click on the Browse button to see a list of current threads.
- Read any thread you choose by highlighting it and clicking on the Get button. The first message in a thread will then appear on the screen. You will have the ability to reply to it, forward it to an e-mail address, or read the next message in the newsgroup. In addition, messages can be downloaded for offline reading. Once you've viewed a message, the next time you log onto the alt.internet.services newsgroup, only new messages will be presented to you.

**Want to post an original article?** You can do so from the primary Usenet screen by double-clicking on the Create an Article command. Take the following steps:

- Make sure the Post to Newsgroup(s) box is checked; if not, click on it to enable it.
- Select the newsgroup to which you want to post in the Newsgroups window (you must be subscribed for it to appear in the window) by clicking on its check box.
- Enter the contents of your message in the text field.
- Click the Send button.

As with any powerful tool, certain caveats apply to using Usenet. The newsgroups have no central office or managing authority; except for the relatively few that are moderated, they depend on the cooperation of their participants. A few tips on Usenet manners are thus in order. Old Internet hands expect to see these principles followed and won't mind telling you so if you waded into a newsgroup ill prepared.

- Don't advertise services or products.
- Flag your jokes with emoticons, such as a smiley face :- ) or <g>, to avoid misunderstandings.
- Don't post multiple copies of the same message to a variety of newsgroups.
- Read a newsgroup before you post to learn what kind of discussions take place in it and its general tone.
- Choose your newsgroup carefully to make sure that your message is relevant to material discussed there.
- Use clear and descriptive titles on your postings.
- If you quote a previous message, be sure to quote only the relevant part rather than re-posting the entire message.
- Avoid "me too" messages that offer no meaningful content.

- Direct personal responses to the poster via e-mail rather than tying up the newsgroup's resources with them.

### Sending and Receiving Electronic Mail

One of the most exciting aspects of Internet use is that it opens up the entire world of e-mail messaging. Not only can you contact colleagues around the globe whether or not they use a CompuServe account; you can also send mail to another online service, whether it be Prodigy, America Online, or any of the other providers who have opened their own links to the network. The Internet thus becomes a common carrier of information, a shared link between people who use a variety of different services to access its resources.

Moving messages between CompuServe and the Internet demands only that you format the address correctly. Internet addresses use the Domain Name System, which breaks them into a hierarchical structure. For example, chaucer@tales.canterbury.org is a legitimate (if fictitious) Internet address; it tells the system to look for the user whose log-on name is "chaucer" at a computer named "tales" at an organization called "canterbury." Data packets routed to this site make use of these addresses by reading them from the right to the left to reach their destination.

**To send mail to the Internet,** CompuServe's computers need to know that your mail is intended for the Internet gateway. You can indicate this by formatting the address according to a new convention. In the case above, I would use the following address:

INTERNET:chaucer@tales.canterbury.org

**If you want to send mail from another Internet site to CompuServe,** you need to make a few changes in the address:

- Replace the comma in the user number with a period.
- Use compuserve.com as the Internet domain.

Suppose you would like to send mail to 79999,846 from an Internet source outside CompuServe. The proper address would be:

79999.846@compuserve.com

Messages of up to 2MB in length can be sent or received.

You can also use e-mail to sign up for mailing lists—electronic discussion areas where people exchange messages on a whole library of topics, ranging from astrophysics to harpsichord records. All messages posted to the group's central address are distributed to the mailboxes of subscribers, each of whom has the opportunity to answer them. To join a mailing list, send mail to the appropriate address.



# Glossary of Key Internet Terms

Spend some time perusing CompuServe's Internet offerings and you'll discover that the infobahn has a lexicon all its own. The following is a glossary of terms you'll likely come across as you learn more about the Internet, whether it's at a Telnet site, a Web page, or within CompuServe's two Internet support forums.

**ARPANET** A network created by the Advanced Research Projects Agency to study how to make computer networks secure in the event of nuclear war.

**client** A program that requests services from another computer, called the server.

**domain name** A multi-part name that identifies an Internet computer, where each component refers to a computer, network, or organization, such as rtfm.mit.edu. It's the basis of the Domain Name System that the Internet uses.

**FAQ** A frequently-asked-questions list is a document that covers basic information from a particular Usenet newsgroup or mailing list.

**FTP** File Transfer Protocol is used to download files. Entering "anonymous" as your log-on (with your e-mail address as your password) allows you to use resources that the site has made accessible to the public.

**gateway** A computer that handles moving data from one network to another. Normally used to refer to communications between two different kinds of networks.

**HTTP** Hypertext Transport Protocol makes hypertextual browsing through the World Wide Web possible; the user clicks on links that are established in a Web document and moves to that document, even though it may be located on a different computer.

**hypermedia** The ability to display a range of different media, accessible through hyperlinks. A World Wide Web page, for example, may contain photographs or drawings, textual formatting, and links to audio and video sources.

**hypertext** Data which provides links between key elements, allowing you to move through information non-sequentially.

**Internet** The worldwide matrix of connecting computers using the TCP/IP protocols.

**Internet Society** Promotes the growth of the Internet and works to assist those groups involved in its use and evolution.

**IP address** An Internet address expressed in numbers.

**listserv** A program that manages mailing lists by responding automatically to e-mail requests and distributing new messages.

**mailing list** A group discussion carried on through electronic mail.

**nameserver** A computer that manages

Internet names and numeric addresses.

**netiquette** The etiquette of using the network.

**newsgroup** A Usenet discussion group about a particular topic. Some 11,000 newsgroups now exist.

**packet** The basic unit of Internet data. A message is assembled into packets, each marked with the address and other pertinent information.

**packet switching** The process of sending packets through the network, allowing for alternate routing if a particular network link fails.

**PPP** Point-to-Point Protocol is a method of exchanging data packets with the Internet over a telephone line.

**protocol** A protocol defines how computers communicate; it is an agreement between different systems on how they will work together.

**router** A computer that determines which path Internet traffic will take to reach its destination.

**server** A computer that provides a resource on the network. Client programs access servers to obtain data.

**signature** A short note, usually containing your name and address and a brief quotation, that appears at the end of mail or newsgroup messages you send.

**TCP/IP** The set of protocols that determine how data is transmitted on the Internet. Transmission Control Protocol controls the transport of data, ensuring that it is delivered. Internet Protocol determines the packet structure of data and the addressing used to deliver data to its destination.

**TCP/IP stack** Software for managing Internet data packets on your computer.

**Telnet** An Internet protocol that allows you to log onto a remote computer.

**terminal emulation** Communication with a remote computer by which your PC acts as a terminal connected to it.

**URL** Uniform resource locator is a standard way to refer to resources that specifies the type of service as well as the exact location of the directory or file in question.

**Usenet** A worldwide network of newsgroups on thousands of subjects.

**World Wide Web** A system that organizes Internet data through hypertext links, allowing you to explore resources from multiple entry points using a browser.

—PAG

For example, to join a mailing list about mystery and suspense books, send mail to the following site:

INTERNET:mystery-request@csd4.csd.uwm.edu

In the message, simply ask to be added to the subscription list, and postings will soon begin to arrive in your mailbox. When you send messages to the list, you will use a second address that will be specified when you subscribe; the first address (with the word "request" in it) is for subscriptions only.

Some mailing lists are run by automated systems called "listservs." When you see an address with the term listserv in it, as in listserv@unlinfo.unl.edu, you know you are dealing with such a system.

**To subscribe to a list through a listserv,** send this message to the appropriate address:

subscribe listname yourname


"listname" is the name of the mailing list, and "yourname" contains your first and last name (not your mailing address), with spaces. For example, if you wanted to subscribe to a mailing list for writers, illustrators, and fans of comic books, you would type:

subscribe comic-l john doe.

A final type of mailing list uses a system called "majordomo." If your mailing list has majordomo in its address, then your message to subscribe should be:

subscribe listname

No name or address is necessary with lists that use majordomo.

Check the Internet Resources Forum's Library 8, "Mailing Lists," to get samples of mailing lists you might like to subscribe to (for example, ARTINF.TXT on arts and arts education). If you subscribe to mailing lists, be advised that some of them carry heavy traffic. Messages to CompuServe members from the Internet are billed postage due at 10 cents per message, a fee that is offset by the \$9 monthly usage allowance. While no charge is incurred if you delete such a message without reading it, you should keep this charge in mind with any incoming Internet mail. 

\* \* \* \* \*

For more information on Usenet newsgroups, see Paul A. Gilster's "Newsgroups Explained" (p. 23) in the January 1995 issue of CompuServe Magazine. Likewise, additional details on FTP can be found in Gilster's "Discovering FTP" (p. 26) in the March 1995 issue. If you don't have access to these back issues, the articles can be read in the Online Today area (GO OLT), which is free of connect-time charges.

See "Net Downloads," p. 20.



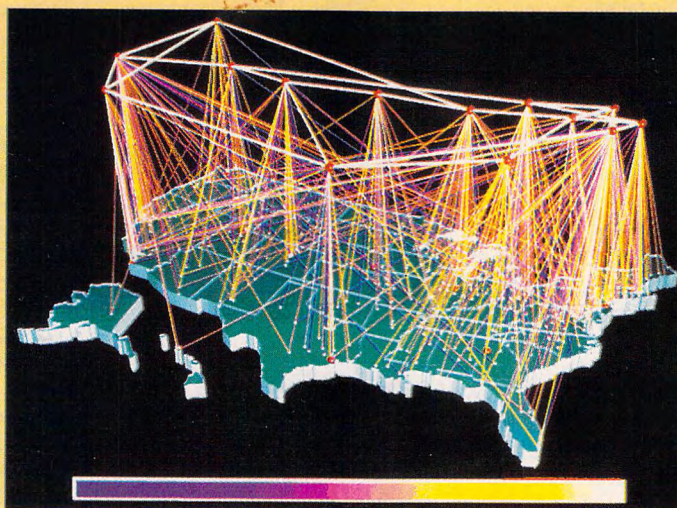
## Where the Internet Came From

With 40,000 individual networks linked to form the Internet, and growth continuing at roughly 10 percent per month, a key question remains—just who's in charge here? This sprawling network boasts no central office or administrative control point; instead, it functions through the voluntary efforts of organizations such as the Internet Society, whose Internet Engineering Task Force promotes network research and develops standards for Internet protocols and architecture.

To understand how the Internet is structured, it helps to take a look back at its birth. Launched in 1969 as a project of the U.S. Department of Defense's Advanced Research and Projects

Agency, the Net evolved out of the tensions of the Cold War. Computer networks in those early years were deemed vulnerable in the event of war; shut down one link and the whole system might fail. Using a set of computer protocols called TCP/IP (Transmission Control Protocol/Internet Protocol), the original ARPANET was created as a "self-healing" network. Data was placed into packets, each sent with complete addressing information, so that if one route to a destination failed, the packets could be routed to another.

But ARPANET quickly outgrew its original model. By the early 1980s, its military component had become a separate network; the true birth of today's Internet can be dated from that split. The re-



A "snapshot" of the Net in '92: INMAP.GIF, Internet New Users Forum.

sulting civilian network grew mightily under sponsorship of the U.S. National Science Foundation in the same decade, as links were established and continuously upgraded between U.S. universities and super-computer sites; other government agencies—NASA, the Department of Energy, the National Institutes of Health—soon added their own networks. Simultaneously, the concept of linking diverse data sources through the "packet switching" model spread overseas.

By 1990, a commercial element had entered the picture as companies began to use the Net to exchange electronic mail and access files. Today, nine out of 10 new sites are commercial in nature, and the growth in business-

oriented destinations has become explosive.

Today, the range of material on the Net is as varied as the people who produce it. You can find everything from the works of Shakespeare to the proceedings of the Association for Computing Machinery. The Louvre in Paris is online with a stunning collection of art files, while the U.S. Library of Congress offers access to fact-filled historical exhibits of its own, enlivened by superb graphics. Elementary and high schools have emerged as the latest wave of Net citizens to tap these resources.

—PAG

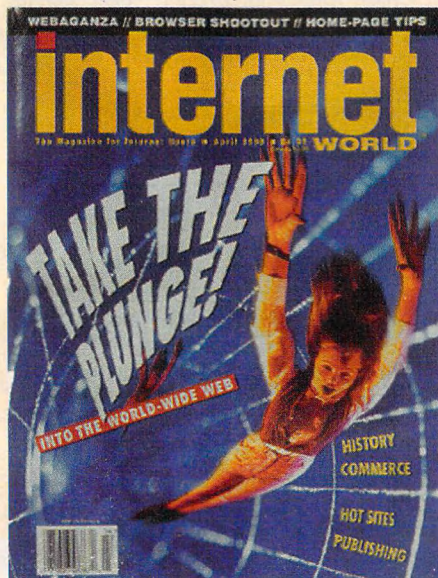
## Internet World Forum Now Open

*Internet World*, the glossy two-year-old magazine that slices the expansive Internet down into bite-size pieces, has opened the Internet World Forum on CompuServe (GO IWORLD). Begun as a newsletter in 1990, *Internet World* now provides a monthly glimpse of life on and news of the Net, from the "Webolution" of the World Wide Web to recent developments in cyber-law to "Pointers" that link readers with Usenet newsgroups, FTP sites, mailing lists, and Web pages sharing a particular subject matter.

The forum's message sections allow members to talk back to the publication's editors, read the latest Internet news, and spout off about their favorite Net resources and topical issues. Says Tanya Mazarowski, the magazine's public-relations manager and forum sysop, "Threads are quickly developing to discuss such things as government intervention and censorship, sex on the Net, and headlines that have turned heads around the globe." More importantly, messaging allows CompuSers confused by Internet hype to learn what the various resources are and how to use

them from CompuServe. "We're all lost at some point. The Internet is the kind of thing where you can't call tech support or 'The

Discern what's worthy in Netland and learn how to reach it with online help from *Internet World*.



Internet People' to find out what's going on. We're here to educate," Mazarowski adds.

Files in the forum's Library 3, "Entry-Level/Newbies," aid in that endeavor, helping downloaders take their first "baby steps" and discern what's merely good on the Internet from what's better. Other libraries let readers retrieve shareware and other files mentioned in the magazine, as well as read the text of articles. Library 2, "The Surfboard," is notable for its uploads based on the magazine's Net-surfing column of the same name, which directs users to Web sites they can try.

Also expected are online conferences with Internet experts and personalities, including *Internet World* contributors (and fellow sysops) Andrew Kantor, an associate editor, and Paul Gudelis, editor of IBM's Web server for the 1996 Olympics in Atlanta.

—Christopher J. Galvin



# Net Downloads: Helpful Files From the Internet Forums

CompuServe's Internet forums are a tremendous resource in helping you understand and traverse the Internet; they also help find the kinds of information and files you're looking for and make them work on your computer. The following is a good cross section of popular files from the forums. ZiffNet and ZiffNet/Mac members should also note the collections of Internet-related uploads in the Interactive Week Forum's (GO IAWEEK) Library 8, "The Internet Files," and the ZiffNet/Mac Download & Support Forum's (GO DOWNLOAD) Library 5, "Internet."

## INTERNET NEW USERS FORUM (GO INETFORUM)

### Library 1, "General/Misc. Help"

**CompuServe FAQ**—An Internet-style frequently-asked-questions file with answers about all of CompuServe's Internet services.

**CISFAQ.TXT (40,204 bytes)** **T**

**Yanoff's Connections**—Well known in Internet circles is Scott Yanoff's regular compilation of Net resources by broad categories. Includes World Wide Web pages and Gopher, Telnet, and e-mail addresses.

**YANOFF.TXT (86,513 bytes)** **T**

**Gray's List**—Equally well considered is Matthew Gray's collection of World Wide Web pages, listing important pages by region, institution, and organization. One of many "Internet Pearl" DOS TSR programs by Solotech Software.

**IPERLS.ZIP (54,511 bytes)** **D**

**Official Roadmap**—A Windows Help-file version of the popular Official Roadmap to the Information Superhighway contained at the NetCenter WWW site (<http://netcenter.com/>). Has some of the thousands of links to interesting Web sites stored at NetCenter.

**ROADMA.ZIP (101,523 bytes)** **W**

### Library 2, "Internet Beginners"

**Good I-net Reads**—The Unofficial Internet Book List, a comprehensive guide to books related to the Internet, by Kevin M. Savetz.

**INBOOK.TXT (123,928 bytes)** **T**

**Windows E-Book**—Internet Book for Windows gives you an easy place to store the information you've begun gathering about Net resources, such as favorite Web pages and FTP sites. Already includes a "greatest resources" list to get you started. Shareware.

**AMIB.ZIP (246,506 bytes)** **W**

**EFF Newsletter**—Issues of the Everybody's Internet monthly newsletter put out by the Electronic Frontier Foundation and Adam Gaffin. Includes a "Services of the Month" department. Search for files using the following wildcard file name.

**UPDATE.\* (10,000–20,000 bytes each)**

**T**

**View of the Net**—Created by the NCSA, this graphic depicting connections and an elevated backbone is one of the best representations of the Internet as it exists in the U.S.

**INMAP.GIF (159,190 bytes)** **G**

### Library 4, "Accessing the Net"

**Media List**—A comprehensive listing of daily, weekly, alternative, and college newspapers, magazines, news services, TV and radio networks and stations, publishing houses, and newsletters that have Internet addresses.

**MEDIAL.006 (40,527 bytes)** **T**

### Library 5, "Using Email"

**Mail Guide**—The Internet Mail Guide is a Windows Help file designed to help users understand and use the e-mail syntax between the differing network protocols that exist on the Net.

**INTGU1.ZIP (11,312 bytes)** **W**

**UUencode/Decode**—The popular DOS implementation of these utilities that translates any binary file (GIF, ZIP, EXE, etc.) into an ASCII file for mailing over the Internet (which cannot handle binary transfers). Decodes files sent in this manner as well.

**UUENC.ZIP (41,874 bytes)** **D**

**Web, Etc., by E-Mail**—This ZIPped-text file explains how documents that can normally be accessed via Internet services such as Gopher and the World Wide Web can be retrieved by Internet e-mail.

**NETBYM.ZIP (16,099 bytes)** **T**

### Library 6, "Using FTP & Archie"

**FTP Answers**—A FAQ file with answers to common questions about use of CompuServe Information Manager (CIM) to access the Internet FTP service. Covers how you might find files of interest, unusual UNIX compression formats, why some files have no size, and other oddities encountered.

**CISFTP.TXT (13,689 bytes)** **T**

**FTP for Windows**—If you want to try FTP over CompuServe's PPP direct link to the Internet, this "client" program serves as the interface. Designed with the novice user in mind, it features automatic downloading of files.

**WS\_FTP.ZIP (93,643 bytes)** **W**

### Library 7, "Using USENET"

**Newsgroups Lists**—These two files provide a list of the more than 2,000 Usenet newsgroups displayed through CompuServe's CIM interface, and a ZIPped-text list of all known Usenet newsgroups at the time of the file's creation.

**NG-CIS.TXT (161,912 bytes)**

**NWSGPS.ZIP (28,182 bytes)** **T**

**Usenet FAQ**—Learn the answers to such questions as "What is the origin of the term 'grep'?" and "Are there any restrictions on posting e-mail someone sends to me?" frequently asked in some of the more popular Usenet newsgroups. Some useful info, but better as a look at Internet lore.

**USENET.FAQ (42,904 bytes)** **T**

**Picking Up Pix**—GIFs in the image-oriented newsgroups are posted in ASCII format and often in sections. How do you combine these and turn them back into binary files? These two files, a once-over of steps and a more detailed FAQ file, help explain the process.

**USENET.TXT (3,811 bytes)**

**FAQ.TXT (122,397 bytes)** **T**

### Library 8, "Using Mailing Lists"

**Lists Explained**—Two files: the first a FAQ explaining what Internet mailing lists are and how they work, and a second telling how to receive the most current master list of available mailing lists by e-mail.

**MAILST.FAQ (4,215 bytes)** **T**

**MAILST.TXT (1,889 bytes)** **T**

**Internet Press**—A guide by Kevin M. Savetz (with John Higgins) to Internet-oriented newsletters available by free e-mail subscription.

**INTPRS.TXT (11,119 bytes)** **T**

### Library 9, "Using WWW & Mosaic"

**Netscape FAQ**—Answers to questions about Netscape Navigator 1.0, which has been repeatedly reviewed as the best Web browser going. Includes info on the FTP site from which it can be retrieved.

**NETSCP.FAQ (10,937 bytes)** **T**

**Beginners' HTML**—A guide to learning HTML (hypertext markup language), a simple language used to create the hypertext links in World Wide Web docu-

## Key to Mentioned Files

<b>A</b> Animation	<b>M</b> Macintosh
<b>D</b> DOS	<b>O</b> OS/2
<b>G</b> Graphics	<b>T</b> Text
<b>H</b> HTML	<b>W</b> Windows



ments.

HTMLBG.TXT (32,085 bytes) **T**

#### Library 10, "Using Telnet"

**Telnet Intro**—An introduction to CompuServe's Telnet service, an Internet facility with which you can execute commands on remote computers as though you were logged on locally.

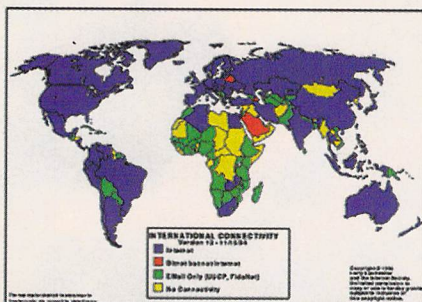
TELNET.TXT (4,820 bytes) **T**

#### Library 15, "Internet Society"

**I-net GIFs**—Two interesting graphics from the Internet Society: an international connectivity map showing various countries' Internet involvement, and a list of Internet country codes that you'll see in e-mail and World Wide Web addresses. GIF format.

CONNEX.GIF (25,111 bytes) (below)

CTYCOD.GIF (29,057 bytes) **G**



#### INTERNET RESOURCES FORUM (GO INETRESOURCE)

#### Library 1, "CIS Resources"

**CompuServe From the Net**—A simple text file explaining how Internet users can become members of and use CompuServe, utilizing the Telnet command.

ACCESS.TXT (2,797 bytes) **T**

#### Library 3, "Books/Magazines"

**Net-Letter Guide**—A newshound's guide to newsy electronic periodicals available through the Internet, such as the Letterman-watching Late Show News, CyberWire Dispatch, Computer Privacy Digest, and AIDS Daily Summary.

NETLTR.TXT (23,074 bytes) **T**

#### Library 4, "PC Internet S/W"

**Trumpet Winsock**—This highly downloaded Windows shareware TCP/IP stack works with a browser program to connect to the World Wide Web via CompuServe's PPP connection (if you aren't using CompuServe's Net-Launcher software). A second file provides a guide to installation, configuration, and use of the "socket" program.

TWS20B.ZIP (179,015 bytes) **W**

TRWSKH.TXT (6,710 bytes) **T**

**NCSA Mosaic for Windows**—The original and probably most popular Web browser to date, with a companion Read Me file with instructions. A 32-bit Windows NT version of Mosaic is also available in this library as W86A9.EXE. (Other browsers, such as Cello and EInet WinWeb, are also uploaded here.)

MOS20B4.EXE (1,160,079 bytes) **W**

NCSAMO.TXT (7,869 bytes) **T**

**ZR Fileworks**—Not only does this multifaceted program view many formats of image files (GIF, JPEG, etc.) and handle compression/decompression of ZIP and other common Internet archive types, it UUencodes and decodes binary files to the ASCII format necessary for transmission over the Internet (breaking up and merging them into/from smaller sendable pieces as needed).

ZRFW.ZIP (492,186 bytes) **W**

**EZ-Split**—Want to archive a large Internet download to multiple diskettes or floppies? This Windows program breaks up (and rejoins) files for saving to any size/density medium.

ES100S.ZIP (484,907 bytes) **W**

**Pearls Database**—Solotech's premier Internet Pearl program is an updated database of important FTP and Web addresses, notes about each site, and sample Web pages. The intuitive database lets you customize your rapid-find search.

DPRL11.ZIP (571,193 bytes) **D**

**Zen Internet**—Brendan Kehoe's *Zen and the Art of the Internet* was the original no-nonsense guide to the Internet's major tools, released to the public domain. It's preserved here in an easy-to-navigate Windows Help file.

ZEN10.HLP (197,804 bytes) **W**

#### Library 5, "Mac Internet S/W"

**NCSA Mosaic for Mac**—Mac version of the popular Web browser. A Power Mac version is also available here as NCSAMO.PPC.

NCSAMO.68K (878,720 bytes) **M**

**MacPPP**—This control panel/extension package is a Line Access Protocol driver for Apple's MacTCP control panel, the means by which your Mac "speaks" the Internet's TCP/IP language.

MACPPP.SIT (53,760 bytes) **M**

**MacTCP Updater**—This Apple patch updates the MacTCP control panel needed for a PPP connection to Version 6.0.2.

MTCP26.SIT (77,952 bytes) **M**

**UUTool**—One of several available UUencode/decode utilities for the Mac, used to convert binary files to ASCII for transmission over the Internet.

UUT232.SEA (43,008 bytes) **M**

**FTP Sites**—Mike Gleason's list of good Mac-oriented anonymous FTP sites.

MACFTP.SIT (14,976 bytes) **T**

**Blue Skies**—This fun interface uses a PPP connection to directly access the University of Michigan's education-oriented Weather Underground site. There you can view up-to-the-minute "interactive" weather graphics and forecasts, archived images and animations, and more.

BLUSKY.SEA (188,672 bytes) **M**

#### Library 7, "Where to Find . . ."

**Internet Info Sources**—John December's mammoth text file catalogs many FTP, Gopher, Telnet, e-mail, World Wide Web, and Usenet newsgroup resources by areas of interest.

INFRSC.TXT (253,565 bytes) **T**

**Yellow Pages**—Another publication of the NetCenter WWW site, the *Interactive Yellow Pages* provides a Windows view on important people and places on the Internet. An online version of the directory is available at NetCenter.

YELLOW.ZIP (112,080 bytes) **W**

#### Library 9, "WWW/Hypertext Tools"

**HoT MetaL**—This Windows HTML editor comes highly recommended as a means of creating Web-usable hypertext for people starting their own Web pages.

HOTMET.ZIP (1,358,061 bytes) **W**

**URLs Explained**—This HTML document, which you can open and view from a Web browser, explains what the "http" and the rest of a Web page's address components mean.

BGURLS.HTM (5,347 bytes) **H**

#### Library 13, "Resources-Govt."

**Uncle Sam Online**—Another Internet Pearl freeware guide, this pop-up DOS TSR provides an index to government information available through the Internet, mainly through the World Wide Web.

GOVLNX.ZIP (30,615 bytes) **D**

#### Library 15, "Resources-Personal"

**Used Software**—Information about the Used Software Exchange, a Web site that acts as a global classified-ad service for people looking to sell used software.

SOFTWA.EXC (999 bytes) **T**



by Christopher J. Galvin



ILLUSTRATIONS BY LANCE JACKSON

# The Wide World of Web

► **With graphics, sound, video, and point-and-click simplicity, the World Wide Web is a multimedia fun house.**

Lou Montulli, an employee at Netscape Communications Corp., had a brainstorm one day: why not take the small, limited-resolution camera that came with his Indy SGI workstation and point it at his 90-gallon fish tank? The camera could capture the image to a GIF or JPEG every few minutes, regardless of whether he was actually present, and his workstation would store the picture on Netscape's main server. Thus was born the Amazing Fish Cam, a page on the Internet's World Wide Web where Web cruisers can, day or night, download and view a brand-new shot

of Montulli's lion fish, sailfin tang, and yellow-tail damsel. You might even catch a reflection of the busy programmer himself in the tank's glass.

Such is the level of creativity and novelty on the World Wide Web, the fastest-growing part of the Internet. The Web is an ever-expanding network of documents (called "pages") stored on server computers all over the world, now available through CompuServe's new dial-up PPP (Point-to-Point Protocol) connection (for more details, GO PPP). Each page contains text, usually some multimedia offerings such as graphic images, digitized sound files, or video animation, and numerous blue-shaded hypertext links to

other documents. Since the means of negotiating Web pages—pointing and clicking on icons, pictorial "hot spots," and underscored words—is already familiar to windowed-interface users, even Internet neophytes can quickly figure it out. "The Web is the future of the Internet, and will define it to the public," says Internet New Users Forum (GO INET-FORUM) member Jack Pincus.

Pages are interconnected much like Windows Help files, notes Jim Casey, a staff member of CompuServe's Internet forums. "There you click on the help icon and get a list of topics. You click on the item you need help with and get a page of text and graphics. Some words are highlighted, and when you click on



them, you go to another page giving more details on that topic," he says. In a similar and much more addictive fashion on the Web, you can bounce from topic to topic, discovering new information and unrelated subjects serendipitously, never returning to the index at which you began. "Once you start browsing the Web, you can jump from page to page until your finger goes numb," Casey says.

Web pages are read with the use of an intuitive graphical "browser" program that sends commands to the Internet sites you visit and displays whatever information the page you've "turned" to holds. Browser software is a burgeoning field; many of the popular titles, such as NCSA Mosaic, Cello, WinWeb, and SlipKnot, are available in the Internet Resources Forum (GO INETRESOURCE). CompuServe NetLauncher for Windows can be downloaded for free from the NetLauncher area in basic services. Others are available on the Internet or commercially. Browsers also let you save any image you view or the textual content of any page you visit, preserving the page's HTML (hypertext markup language) format and the links stored within. That's helpful when you run across a

picture or a page containing pointers to other pages you'd like to keep.

An interesting note: Unlike CompuServe, where you're almost always accessing the same host computers in Ohio, the Web takes you from point to point as you navigate across different servers. So when you're accessing Web sites in France or Japan or Australia, you are quite literally "there," even as the distance is hidden.

So what's out there on the Web's tens of thousands of pages? The question might be better phrased "What isn't?" U.S. government agencies and branches (such as the White House, Library of Congress, NASA, and CIA) and educational institutions offer access to their resources and information; vendors computer-related and not let you obtain support or even order their wares; and publications such as *Time* and *Wired* present free and much-enhanced electronic versions of themselves. But the real fun factor emerges in pages where regular people make the most of this new form of expression, whether they're maintaining a center of fandom for a celebrity, musician, or TV sitcom, giving the world a chance to hear the best song by the obscure

band they're in, or just engaged in some cyber show-and-tell about themselves and their favorite Web sites in what's known as a "personal Web page." If CompuServe is a famous and well-regarded department store, says Mark Measday, a Web-browsing CompuServe in Geneva, the Web's variety and unpredictability make it "like shopping in an unknown part of the city where everything keeps changing."

Paul Goldman, a New York City Web user, believes the accessibility of the "impressive, singularly unique" technology promises to perpetually deliver Andy Warhol's 15 minutes of fame to anybody who easily fires up his own home page. To Goldman, the Web is a glossy multimedia encyclopedia, almanac, and magazine that chronicles "everything happening in the world." "The range of available news, information, and pure entertainment is so rich," he says, "that time I used to spend reading two or three [real] magazines each month is now taken up by wandering the Web."

Here are some tips about using the World Wide Web, all courtesy of various members of the Internet forums.

## FEATURE

**Get the software.** Check the GO PPP area for documentation about what your kind of computer requires, or ask for help online in the Internet New Users Forum or the NetLauncher Support Forum (GO NLSUPPORT). Web browsers, which unfortunately were designed on fast networked machines, require "stack" system software to work over a modem. This software helps your PC "speak the language" of the Internet, a protocol called TCP/IP. In Windows, this entails a DLL file called a "socket" that helps Windows programs plug into the Internet. "The socket has its own INI file and a bunch of settings you have to get just right," says Jim Casey. A much easier approach may be to obtain an all-in-one Internet hookup, such as the one-button NetLauncher for Windows available on CompuServe (see "Accessing the Web," p. 25), which includes the Spry Mosaic browser and the CompuServe Internet dialer.

**Do your surfing at 14,400 bps or more.** Most Web-savvy members say page hopping at 9,600 bps or lower can be interminably slow, unless you turn your browser over to text-only mode. Web pages will still "work" in that mode, but you'll be missing an important piece of the Web's multimedia pie: graphics.

**You'll need decompression and viewer/player programs,** some of which you may already have and others you probably don't. For instance, just as on CompuServe, it's a good idea for Web-browsing Windows users to have an unZIPping utility, because most of the shareware you'll download will be compressed using the ZIP scheme. However, on the Web you may also run into files compressed using one of the UNIX compression methods (their extensions might be gz or Z); opening these files may require an additional

utility. And along with audio and video file types that are familiar, such as WAVs and AVIs, you may discover new kinds, such as UNIX-format sounds (au) and MPEG video (MPG), that can also require separate utilities to be heard or viewed. Player and decompression programs for Windows (such as VFD and WinZIP 5.6) and Macintosh can be found in the Internet Resources Forum's two libraries dedicated to software.

**Keep a logbook or journal of Web sites you've visited,** suggests Gerry Kaufhold. "I keep a notepad at hand and quickly scribble down notes about which Web site I'm at and comments about what's available," he says. Note taking should include the page's URL (uniform resource locator), basically an address that gives the server location and a descending list of directories in which the page is stored. If you're certain you may make future returns to a page, many browsers let you create a "bookmark" or "hotlist" which saves that page's URL on a pull-down menu for later reference.

**Visit the various browser companies' home pages and What's New/Cool features.** These are a fantastic source of learning what's interesting and new on the Web. Good home pages include:

### Spry Hotland

(<http://www.spry.com/hotland/index.html>)

### Netscape

(<http://home.mcom.com/home/welcome.html>)

### NCSA Mosaic

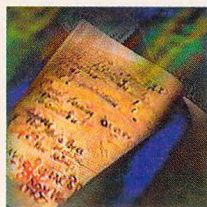
(<http://www.ncsa.uiuc.edu/SDG/Software/Mosaic/Docs/what's-new.html>)

### EInet Galaxy

(<http://www.einet.net>)

### Global Network Navigator's "Best of the Net"

(<http://gnn.com/gnn/wic/best.toc.html>)







**Start browsing at the "lists of lists" and meta-indexes.** There's no better starting place than these pages, which include hundreds of pointers to other pages on the Web. Those that aren't straight lists often catalog Web pages into broad areas of interest, like "Computers," "Entertainment," and "Reference." Some good pages include:

**Stanford University's Yahoo**

(<http://www.yahoo.com/>)

**Planet Earth Home Page's Virtual Library**

([http://godric.nosc.mil/planet\\_earth/info.html](http://godric.nosc.mil/planet_earth/info.html))

**World Wide Web Virtual Library**

(<http://info.cern.ch/hypertext/DataSources/bySubject/Overview.html>)

Good specialty lists include:

**Ultimate Band List**

(<http://american.recordings.com/wwwofmusic/ubl.html>)

**Ultimate TV List**

(<http://www.tvnet.com/UTVL/utvl.html>)

For Web sites with an "alternative" feel:

**Web's Edge What's Hot and Cool**

(<http://kzsu.stanford.edu/uwi.html>)



**Use the Web's search pages.** Remember, there's no central directory to what's available on the Web, so the closest thing you'll find to CompuServe's Find command are the various pages with massive search engines. These vary in speed and accessibility (some can be difficult to connect to because of heavy Net traffic), but once reached, the databases' powerful keyword search will hand over more resources than you'll know what to do with. Some popular search pages include:

**Lycos**

(<http://lycos.cs.cmu.edu/>)

**CUI W3 Catalog**

(<http://cuiwww.unige.ch/w3catalog>)

**Yahoo Search**

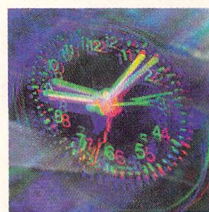
(<http://www.yahoo.com/search.html>)

**WebCrawler**

(<http://webcrawler.cs.washington.edu/WebCrawler/WebQuery.html>)

**World Wide Web Worm**

(<http://www.cs.colorado.edu/home/mcbryan/WWW.html>)



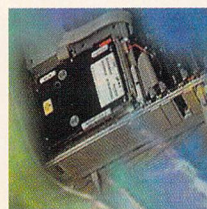
**Set a time limit on host-response waiting.** If you've made the jump to another page, and 30 seconds later you're still waiting for either the "Host contacted" message or the new page to begin filling itself in, halt your attempt with a punch of the browser's Stop button. If you're hitting a site halfway around the world, however, try waiting a little longer, since those connections take time to make. Lynch notes that adding or deleting a terminating forward slash on the end of URLs that don't specify an HTML file (e.g., "list.html") sometimes improves connectibility. "If <http://www.store.net> doesn't work, try <http://www.store.net/>," he says.



**Another time saver: read through text while images are still downloading,** using browsers (such as Spry Mosaic) that allow it. If you're just looking for a hot link to another page, click on it as soon as you see it. You don't have to wait for the graphics to be completely displayed.

**Knock three times.** Trying to get onto a popular page? If you receive the "Connection refused by host" dialog, try twice more and then head somewhere else. Better yet, says Scott Pell, come back when the party's over. "It pays to keep in mind the time-zone differences and link up with servers that are likely to be free due to the late—or early—hour," he says.

**Use "helper" applications only if you want instant gratification.** Each time an icon click nets you a GIF image, sound, or video clip, your browser program lets you launch a particular application elsewhere on your hard drive that displays or plays the file immediately following the end of the download. "Having a helper app linked reinforces the seamless multimedia feel of the Web," says Paul Goldman. "But the memory requirements of some video- and sound-player programs can prevent their being launched while the browser software is running." Plus, if you're keeping a sharp eye on the connect clock, you'll want to disable this option so you can review your new multimedia goodies after you've logged off.



**Have plenty of hard-drive or external storage available.** Browser programs make it incredibly easy to download a program or save a displayed image or the entire page you're looking through. It's not a question of if but when you'll run across multiple-megabyte programs or multimedia files that you absolutely have to have, and chances are good that even with compression they won't fit on a high-density floppy.

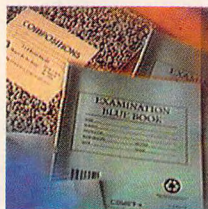
**Run a virus checker on your program downloads,** right away. The vast majority of Web sites are created and run with the best of intentions, but that'll be small consolation if your PC suddenly develops a digital flu caught from some downloaded executable or application. If you think you can find the same file in one of CompuServe's shareware-rich forums, where sysops scan uploads as a matter of course, try there first.





**Browser beware.** As with all media, don't believe everything you read. The pyrotechnics of hypermedia publishing can lend legitimacy to information that is out of date, misleading, or just plain wrong. Says Goldman, "One would hope that individuals with the intelligence to create home pages would also have the social responsibility to ensure the integrity of the information provided. But in a few cases this does not appear to be the case."


**Be very careful when buying over the Net.** A great deal of the Web is pure advertising, albeit pretty nifty advertising that you must actively seek out. Some sites offer the opportunity to order goods by inputting your address and credit-card data. However, most can't promise that this information will be transmitted over the Internet safely, away from hackers' prying keystrokes, though some sites now offer "secure" transmission using encryption technology. Until this is implemented on a mass scale on the Web, though, it's better to simply call your order in to the vendor's 800 or local phone number, which is usually included on a merchandising Web site. As for personal info you may be asked to fill out on a page form, don't provide any that you aren't comfortable giving publicly.



**Don't do serious research on the Web,** unless you're confident of finding something with one of the Web search engines. Patti Niehoff, who looked around for information on Johannes Kepler, found only citations of people at a university named for the esteemed German astronomer. "The Web's value, I think, still lies more in entertainment than as a research tool," she says.

**Questions?** If you have specific questions about a particular page's content, e-mail the page's creator or administrator. The e-mail address is usually somewhere within a site's structure, often at the bottom of the home (main) page. Simply click on the name or e-mail address, and an e-mail composing dialog should appear if you're using a fairly up-to-date browser.



**Remember, the Web is always in flux.** As Michael Mahoney points out, "Some of my favorite sites have moved repeatedly or, worse yet, disappeared without a trace." The Web is also dynamic, being constantly redefined by the people who use it, says David Hopp. "Whatever the Web is today, it will be a lot different tomorrow. If you're looking to discover the excitement of ideas, climb on." 

*Christopher J. Galvin is a senior writer of CompuServe Magazine. His CompuServe User ID number is 70003,5571.*

See "Beginner's Web," p. 26.

## Accessing the Web, Step by Step

Following are steps CompuServe members can take to access the World Wide Web via the new Point-to-Point Protocol access. Start by reading the general information about PPP access in the free PPP area online (GO PPP). Assistance in setting up and using the NetLauncher software for Windows as well as help for making the PPP connection via OS/2 and Macintosh can be found in the NetLauncher Support Forum (GO NLSUPPORT), a part of CompuServe's basic services.

### Windows



- GO PPP; read the About PPP and PPP Frequently Asked Questions menu options.
- Download the NetLauncher kit (GO NETLAUNCH) featuring Spry Mosaic.
- Execute the self-installation program.
- Click on the Spry Mosaic icon in Windows to access the World Wide Web. (Use of a modem is required. Windows NT users must manually configure NetLauncher to run the program.)

### Macintosh



Macintosh users must have the control panel MacTCP, included with Apple's System 7.5 release, in order to access the Web. If you have an earlier version of Apple's operating system, you should either buy 7.5 or MacTCP (it's sold as a stand-alone product, TCP/IP Connection for Macintosh, part number M8113Z/A) from Apple, or find one of the several books about Macintosh and the Internet that come with MacTCP on a disk, such as Adam Engst's *Internet Starter Kit for Macintosh* (Prentice-Hall, 1994).

- GO PPP; read the Macintosh Setup menu option.
- Install the MacTCP control panel (drag onto your System folder).
- Configure MacTCP following the Mac instructions in the GO PPP area.
- Download and install the freeware Mac dialer MacPPP, available as MACPPP.SIT in the Internet Resources Forum's (GO INETRESOURCE) Library 5, "Mac Internet S/W."
- Configure MacPPP following the Mac instructions in the GO PPP area.
- Download a World Wide Web browser from the same Internet Resources Forum library listed above. Selections include versions of NCSA Mosaic (compressed using StuffIt) for 68000 (file NCSAMO.68K) and PowerPC (file NCSAMO.PPC) Macs.
- Open MacPPP and connect. Once the session is established, start up your browser program to access the Web.

### OS/2



OS/2 Warp users have easy access to the World Wide Web via the Internet Access Kit available in the BonusPak that comes with the operating system. Users need the IBM PPP protocol script, available in the IBM OS/2 Users Forum's (GO OS2USER) Library 20, "Internet Scripts," as \$PP.ZIP. Users can then read the complete instructions for entering the correct settings within OS/2's Internet Utilities folder online in the GO PPP area OS/2 Setup.



## Beginner's Web: Pages You Can Try

Are you ready to hit the Web? Here's a guide to just a few of its major and minor attractions that are hypermedia adventures in and of themselves or pointers to hundreds more. Two book titles with much more info on the Web and chapters devoted to cataloging home pages are SAMS's *World Wide Web Unleashed* and Que's *Using the World Wide Web*.

### STARTING POINTS

**Yahoo:** Best browsing/search tool, breaking the Web down into categories.

<http://www.yahoo.com/>

**The Whole Internet Catalog:** Another good browsing tool; try its "Top 25."

<http://nearnet.gnn.com/wic/index.html>

**Spider's Web:** Massive guide to "coolest" sites, with a daily featured link.

<http://gagme.www.com/~boba/spider.html>

**InfiNet Cool Site of the Day:** Another featured link, with great archives.

<http://www.infi.net/cool.html>

**Yahoo Random Link:** Takes you randomly elsewhere on the Web.

<http://www.cen.uiuc.edu/cgi-bin/ryl>

**Netsurfer Digest:** Biweekly HTML e-zine with funny, comprehensive coverage.

<http://www.netsurf.com/nsd/index.html>

**GNN Best of the Net:** Sites honored for being useful, fun, or well designed.

<http://nearnet.gnn.com/wic/best.toc.html>

### NEWS/PUBLICATIONS

**Pathfinder:** Time-Warner's fantastic Net complement to its magazine titles.

<http://www.timeinc.com/pathfinder/>

**Ziff-Davis:** Home page for *PC Magazine*, *MacWEEK*, *Computer Life*, etc.

<http://www.ziff.com/>

**HotWired:** Colorfully designed counterpart to groundbreaking cyber-mag.

<http://www.hotwired.com/>

**San Jose Mercury Center:** The newspaper of the future might look like this.

<http://www.sjmercury.com/main.html>

**E-Zines:** John Labovitz's list of alternative-perspective electronic "zines."

<http://www.ora.com:8080/johnl/e-zine-list/>

**Comics 'n' Stuff:** Pointer page to Dilbert and many other Net cartoons.

[http://www.phlab.missouri.edu/HOMES/c617145\\_www/comix.html](http://www.phlab.missouri.edu/HOMES/c617145_www/comix.html)

### ENTERTAINMENT

**Voyager:** For fans of the latest *Star Trek*, a truly enjoyable treat.

<http://voyager.paramount.com/>

**CBS Eye on the Net:** For Letterman watchers; "What's On" has tonight's programs.

<http://cbs-tv.tiac.net:80/>

**BBC Home Page:** A guide to the British television and radio network.

<http://www.bbcnc.org.uk/>

**Music Resources on the Internet:** Huge catalog of links to tune-oriented pages.

[http://www.music.indiana.edu/misc/music\\_resources.html](http://www.music.indiana.edu/misc/music_resources.html)

**Internet Underground-Music Archive:** Discover music you otherwise wouldn't.

<http://www.iuma.com/>

**Elvis Home Page:** The King is on the Net; with Graceland photo tour.

<http://sunsite.unc.edu/elvis/elvishom.html>

**The Internet Movie Database:** Get a filmography of your fave actor, director.

<http://www.msstate.edu/Movies/>

### ENTERTAINMENT continued

**Star Wars Home Page:** Collectibles, games, multimedia, survey, and more.

<http://stwing.resnet.upenn.edu:8001/~ruspini/starwars.html>

**Hollywood Online:** Movie trailers, interactive kits, sound clips, etc.

<http://hollywood.com/>

**Cinema Sites:** Extensive guide to movie and TV resources on the Web.

[http://www.vir.com/Videofilm/davidaug/Movie\\_Sites.html](http://www.vir.com/Videofilm/davidaug/Movie_Sites.html)

**Playbill Online:** What's playing on Broadway? Has listings and related info.

<http://webcom.com/~broadway/>

### ARTS/CULTURE

**WebLouvre:** French virtual art gallery has Famous Paintings exhibitions.

<http://mistral.enst.fr/louvre/>

**Cave Paintings:** Displayed are the recently discovered Paleolithic pictures.

<http://dmf.culture.fr/culture/gvpda-en.htm>

**Art on the Net:** Galleries of avant-garde works; very good jump page of links.

<http://www.art.net/>

**The File Room:** Devastating, well-organized catalog of censored materials.

<http://fileroom.aaup.uic.edu/FileRoom/documents/homepage.html>

**EXPO:** Exhibit organization; links to Vatican, Soviet Archive, other Web "tours."

[http://sunsite.unc.edu/expo/ticket\\_office.html](http://sunsite.unc.edu/expo/ticket_office.html)

**Complete Works of Shakespeare:** Searchable text of the Bard's stuff.

<http://the-tech.mit.edu/Shakespeare/works.html>

**Project Gutenberg:** Access this effort to put classic texts in electronic form.

[http://jg.cso.uiuc.edu/pg\\_home.html](http://jg.cso.uiuc.edu/pg_home.html)

### GOVERNMENT

**White House:** Bill and Al's excellent experiment has virtual tours and more.

<http://www.whitehouse.gov/>

**Thomas:** Jeffersonian link to U.S. House, Senate bills; *Congressional Record*.

<http://thomas.loc.gov/>

**CIA World Fact Book:** Encyclopedic dossier on every country on earth.

<http://www.ic.gov/94fact/fb94toc/fb94toc.html>

**Supreme Court Decisions:** Archived, searchable holdings of cases to 1990.

<http://www.law.cornell.edu/supct/>

**SBA Online:** The graphical home page of the Small Business Administration.

<http://www.sbaonline.sba.gov/>

**NASA:** Overview of various NASA centers, archives, and general information.

[http://godric.nosc.mil/planet\\_earth/nasa.html](http://godric.nosc.mil/planet_earth/nasa.html)

### HOBBIES/RECREATION

**Joseph Wu's Origami:** Extraordinary examples of the paper-folding art.

<http://www.cs.ubc.ca/spider/jwu/origami.html>

**GORP:** Like the Great Outdoors? A page of info and links to al fresco activities.

<http://www.gorp.com/>

**Grand Canyon Nat'l Park:** A solid-as-rock tour with images and loads of info.

[http://www.kbt.com/gc/gc\\_home.html](http://www.kbt.com/gc/gc_home.html)

**ESPNet SportsZone:** Cable channel's stats, scores, and schedules site.

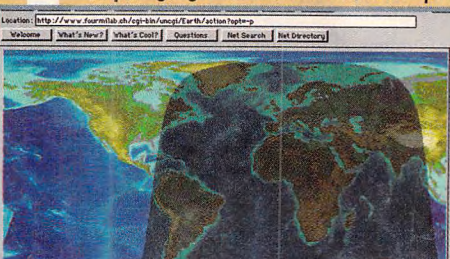
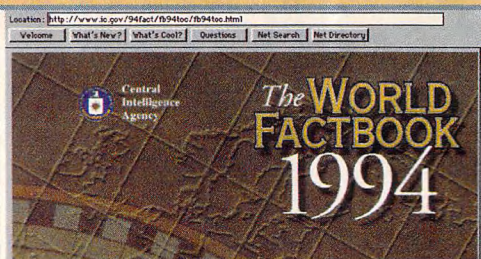
<http://espnet.sportszone.com/>

**The 19th Hole:** Tee off here for golf info; has (of course) links to other sites.

<http://www.tr-riscs.panam.edu/golf/19thhole.html>

**The Virtual Pub:** Beer aficionados' paradise, with "interactive tastings."

<http://lager.geo.brown.edu:8080/virtual-pub/index.html>





## HEALTH

- CancerNet:** The National Cancer Institute's site, with patient and doctor info.  
<http://biomed.nus.sg/Cancer/welcome.html>
- The Safer Sex Page:** Educational info on the spread of AIDS and STDs.  
<http://www.cmpharm.ucsf.edu/~troyer/safesex.html>
- Internet Health Resources:** Guides you to Net areas by subject.  
<http://www.hooked.net/site/health/nethome1.html>

## JOBS/MONEY/CONSUMER

- AT&T 800 Directory:** Search for the toll-free phone number you need.  
<http://att.net/dir800>
- FedEx Home Page:** Where the heck's my FedEx package? You'll find out here.  
[http://www.fedex.com/cgi-bin/track\\_it](http://www.fedex.com/cgi-bin/track_it)
- Job Search:** A list of annotated links to employment-related sites on the Net.  
<http://www.lib.umich.edu/chdocs/employment/>
- Best of Investment:** Nine categories of the best Web money resources.  
<http://nearnet.gnn.com/gnn/meta/finance/res/invest.subjects.html>
- Koblas Currency Converter:** How many rubles or pesos? Updated database.  
<http://gnn.com/cgi-bin/gnn/currency>
- Consumer Info Center:** A highway sign guides access to CIC's pamphlets.  
<http://www.gsa.gov/staff/pa/cic/cic.htm>
- DealerNet:** Browse virtual car showrooms and related automotive services.  
<http://www.dealernet.com/>
- The Hall of Malls:** A directory to all the Web's virtual shopping centers.  
<http://nsns.com/MouseTracks/HallofMalls.html>

## KIDS/EDUCATION

- Uncle Bob's Kids' Page:** Links to sites of interest to the young ones.  
<http://gagme.www.com/~boba/kids.html>
- College Pages:** A list of 750 college and university main home pages, from MIT.  
<http://www.mit.edu:8001/people/cdemello/univ.html>
- NetFrog:** Interactive Frog Dissection uses GIFs and video to very real effect.  
<http://curry.edschool.virginia.edu/~insttech/frog/>

## SOFTWARE

- Windows Shareware Archive:** Search for software across Web servers.  
<http://coyote.csusm.edu/cwis/winworld/winworld.html>
- The Macintosh Software Catalog:** Download software from major Mac sites.  
<http://web.nexor.co.uk/public/mac/archive/welcome.html>
- Games Domain:** The Web's central source of game software and information.  
<http://wcl-rs.bham.ac.uk/GamesDomain>
- Used-Software Exchange:** A marketplace for buying and selling programs.  
<http://www.hyperion.com/usx/>

## IMAGES/GRAPHICS

- Digital-Picture Archive:** Netherlands-based collection of GIFs and JPEGs.  
<http://olt.et.tudelft.nl/fun/pictures/pictures.html>
- Images, Icons, and Flags:** Master directory of graphics-rich Web sites.  
<http://white.nosc.mil/images.html>
- Spanky Fractal Database:** Cruise the Net looking for neat fractals.  
[http://spanky.triumf.ca/www/other\\_images.html](http://spanky.triumf.ca/www/other_images.html)
- Flags of the World:** National, semiofficial, and racing flags.  
<http://osprey.erin.gov.au/flags/flags.html>

## SPACE/SCIENCE/EARTH

- The Nine Planets:** A fun multimedia tour of our solar system.  
<http://seds.lpl.arizona.edu/nineplanets/nineplanets/nineplanets.html>
- Earth Viewer:** Generates current views of Earth from different positions.  
<http://www.fourmilab.ch/earthview/vplanet.html>
- Earthquake Info:** Where are all the quakes? It's displayed graphically here.  
<http://www.civeng.carleton.ca/cgi-bin/quak>
- Xerox PARC Map Viewer:** User-supplied variables make custom world maps.  
<http://pubweb.parc.xerox.com/map>
- Weather World:** Web version of the popular University of Illinois gopher.  
<http://www.atmos.uiuc.edu/wxworld/html/top.html>

## LOCALITIES

- City.Net:** Guide to city pages worldwide; see its "Virtual Tourist" world map.  
<http://www.city.net/>
- USA CityLink:** Links to city-based pages in the United States.  
<http://www.NeoSoft.com:80/citylink/>
- Free-Nets Home Page:** Links to regional public-access nets with Web sites.  
<http://herald.usask.ca/~scottp/free.html>

## REFERENCE

- List of Usenet FAQs:** Every Internet Frequently Asked Question in one place.  
<http://www.cis.ohio-state.edu:80/hypertext/faq/usenet/>
- Dictionary of Computing:** Glossary of terms from programming, platforms, etc.  
<http://wombat.doc.ic.ac.uk/>
- Webster's:** A searchable hypertext interface to *Webster's English Dictionary*.  
<http://c.gp.cs.cmu.edu:5103/prog/webster>
- Commercial Services on the Net:** Look up PC vendors' Web sites.  
<http://www.directory.net/>

## MISCELLANEOUS

- Useless WWW Pages:** You're not really wasting your time online until you're here.  
<http://www.primus.com/staff/paulp/useless.html>
- Web's Worst:** A daily guide to bizarre pages, with equally strange commentary.  
<http://turnpike.net/metro/mirsky/Worst.html>
- Justin's Links From the Underground:** Tour of Net culture's dark side.  
<http://raptor.swarthmore.edu/jahall/>
- Zarf's List:** Pointers to interactive Web games and toys, like the Magic 8-Ball.  
<http://www.cs.cmu.edu/afs/andrew/org/kgb/www/zarf/games.html>
- CyberSight:** Real-time conversation on the Web; highly clickable.  
<http://cybersight.com/cgi-bin/cs/s?main.gmm1>
- World Birthday Web:** Whose birthday is it? Enter your own in the database.  
<http://sunsite.unc.edu/btbin/birthday>
- Countdown!** Counts the number of days/minutes/seconds to the millennium.  
<http://www.spiders.com/cgi-bin/countdown>
- Name That Tune:** Download rock 'n' roll sound blips and identify them!  
<http://www.omg.unb.ca/~glenn/nameThatTune.html>
- The Band Name Server:** This is fun, even if you're not in a band.  
[http://ugweb.cs.ualberta.ca/~aaron/band\\_names.html](http://ugweb.cs.ualberta.ca/~aaron/band_names.html)
- Nomadic Research Labs:** Writings of a man traveling the world by bicycle.  
<http://microship.ucsd.edu/>
- Lite-Brite:** Do your own drawings using a screen version of the classic toy.  
<http://www.galcit.caltech.edu/~ta/lb/lb.html>





by Carol Ottolenghi-Barga

# Exchange of Address

PHOTO: TOM HOGAN

## PERSONAL ENTERPRISE

### Where to GO

Desktop Publishing  
Forum  
**GO DTPFORUM**

Entrepreneur's  
Forum  
**GO SMALLBIZ**

Japan Forum  
**GO JAPAN**

PR & Marketing  
Forum  
**GO PRSIG**

SoftKey Forum  
**GO SOFTKEY**

Working From Home  
Forum  
**GO WORK**

### The tiniest of marketing tools, the business card, enters a whole new dimension: cyberspace.

To avoid committing a cultural faux pas, CompuServe member Richard Foote visited the Japan Forum before traveling to the island country on business. A product-marketing manager for VeriFone in Redwood City, California, Foote researched the proper way to exchange business cards—a formal ritual in Japan. Forum members told him to present his card with both hands and a formal bow, and warned it's improper to pass cards out or leave them fanned on tables. They also said that when someone offers him a card he should bow and accept it with both hands. "Then you study it; if you don't, it's an insult," Foote says.

The business card may be small, but it can have a significant impact on clients and associates. To make the most of this tiny advertising and marketing vehicle, savvy card users turn to cyberspace. Many add their

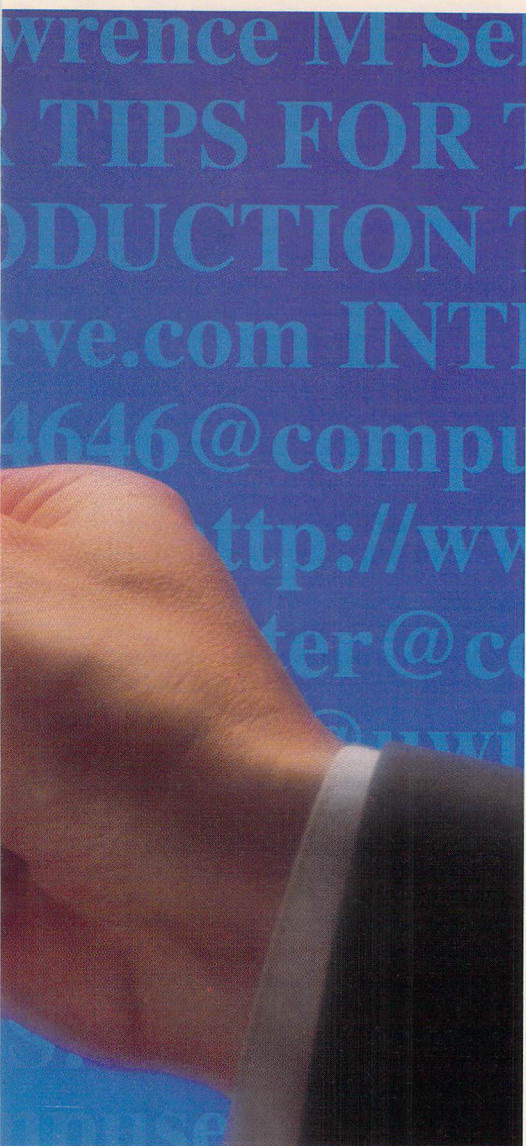
CompuServe User ID number to their business cards so recipients can enjoy the speed of e-mail. Others go online for advice on designing and using their cards effectively, as well as for the software tools needed to make their own. And as more and more business is conducted online, some CompuServers even add an electronic version of their cards to the messages and files they send.

### User ID Publicity

It's not surprising that cyber-addresses are beginning to appear alongside traditional ones on today's business cards. In 1993 an estimated 25 million e-mailboxes existed in the U.S., and 12.5 million were reported in Europe. Tracy Bruce, sysop of the SoftKey Forum and a senior technical adviser for SoftKey International Inc. in Marietta, Georgia, says printing her CompuServe ad-

*Carol Ottolenghi-Barga is a freelance writer and public-relations professional based in Columbus, Ohio.*





dress on her card keeps her accessible to the widespread businesses and personnel she trains and supports. Gini Graham Scott, owner of Creative Communications and Research in Oakland, California, agrees that listing e-mail addresses on business cards is an easy way to accommodate clients. On her card, three e-mail addresses are laid out to balance the three lines of her street address.

Debra Goldentyer, an Oakland writer-producer of education and training media, admits that modern technologies such as e-mail, fax, and voice mail have "wreaked havoc with business-card design." She recommends that people listing CompuServe addresses use the "Internet style" so that cards read XXX.XX@compuserve.com. "I guess you could equate it to putting an area code on a business card," she says. "Everyone knows New York City is 212, but it makes it that much simpler to find you." Those with several electronic addresses sometimes have them printed on the back of their card.

## ADVERTISEMENT

# Conservative Activists On CompuServe Continue Fight For Freedom, Save Money

## ► Conservatives on CompuServe using new tools to win the "war of ideas" in America.

For over a year, a growing number of conservative activists have been meeting on CompuServe to discuss ideas, express opinions, conduct research, and develop strategies that they hope will bring them victory in the "war of ideas" in America.

Their meeting place, appropriately called TOWN HALL®, is a private forum on CompuServe. It is a joint venture of Bill Buckley's *National Review* magazine and The Heritage Foundation, the nation's premier conservative think-tank. The forum may be accessed in CompuServe by typing "GO TOWNHALL".

## Armed With Information

Once inside this remarkable service, you have at your fingertips unparalleled resources in the form of up-to-the-minute news and expert analysis.

You can, for example, get reliable information right at its source, by reading daily press releases from the White House and Congress or the full text of pertinent legislation.

Then access daily issue analysis—written exclusively for TOWN HALL by leading scholars from Heritage, *National Review* and other prominent idea factories. Or read the syndicated columns of top conservative writers, like Buckley, Novak, Kirkpatrick, and Sowell, the day their articles appear in print.

TOWN HALL members also can download articles from the most recent copy of *National Review*, before it appears on the newsstand.

## Members Stay Active

TOWN HALL also gives you an exciting forum to debate issues,

network with conservatives around the country, and get insight into political and social issues of today.

You can join a live panel discussion led by leaders of the conservative movement. Discover the agendas and winning strategies of dozens of grassroots organizations. Or simply chat with fellow conservatives around the country—either in topic-based message forums or in "real time."

## Town Hall Members Save Money

Many CompuServe members find they actually save money on their regular CompuServe bill by joining TOWN HALL. The \$16 monthly fee includes unlimited use of TOWN HALL with no additional hourly charges when you dial a local CompuServe Network access number.

"I love the community," says one member of TOWN HALL. "It really sets this forum apart from others." This friendly community, according to the forum's sponsors, is where the information is exchanged and the ideas debated for a conservative "revolution" in America.

## The New Revolution

Current CompuServe members who are conservative—or merely curious—are cordially invited to join TOWN HALL today for just \$16. Simply "GO TOWNHALL" or call 800-441-4142 for more information.

"The revolution of 1776 is not over yet," says a TOWN HALL user. And he, like many Americans, feel it won't be over until political and social change is made in America. The battle ahead, according to these members, is the fight to limit government and ensure maximum individual freedom so that their children have a better future. And the newest and best tool for this conservative "revolution," he added, is TOWN HALL.



Q:

# YOU NEED TO KNOW A GREAT DEAL WITHOUT SPENDING IT. WHERE DO YOU GO?

Tam McDonald, founder of Prescom, a London-based corporate-communications consultancy, and marketing-committee chairman for the United Kingdom chapter of the International Association of Business Communicators, warns that instant access can be a potential irritant. "Just ask the beleaguered executives of big corporations who struggle with 300 pieces of e-mail every morning before deciding that anybody who wants that badly to send them largely inconsequential notes can take their chances in a telephone queue or write a letter like everyone else," says McDonald. Still, like many other business owners, he decided that the benefits of including his CompuServe User ID number on his business card far outweigh the drawbacks.

## Design Advice and Tools

Inclusion of e-mail addresses is a *visible* example of how members use cyberspace to enhance the power of their cards. But online design advice and tools are the secrets behind many effective business cards. Members seeking help upload their cards in GIF and JPEG format for others' critiques or post queries on topics ranging from content to paper stock, logo scanning, and fonts. Design experts from around the world often join the ensuing information exchange, and informative threads are archived in forum libraries. Some threads are very specific; for example, one in the Working From Home Forum deals primarily with printers and paper sources for business cards. (See "Templates and Other Business-Card Files," p. 32.)

Other threads are wide-ranging. Another Working From Home thread titled "Business Cards" began with a question about listing business information on both sides of a card. This developed into a discussion on the pros and cons of "mini-brochure" business cards with one or more folds, specific format suggestions, paper stock, defining the image a company wants to project, content, sizes, defining the card's target audience, and more.

Both VeriFone's Foote and Don Singleton, an Oklahoma-based independent computer consultant and president of the Tulsa Computer Society, participated in that thread and advised the would-be card designer to emphasize one simple message. "A business card is not a résumé," Singleton says, and Foote agrees. "The goal of a small business," he says, "is to sound bigger than it is. If you try to list everything you do, you sound like a small company trying to tell someone how wonderful you are all in one breath." Foote suggests hiring graphics professionals to design your business card for the same reason. "Just because all of us can do layouts on a computer," he says, "doesn't mean we can all do it well."

Linda Dailey Paulson, a Sacramento, California, writer and editor, heard that message loud and clear. She recently posted a query about self-designed business cards in the Working From Home Forum. The response was lively, opinionated, and varied—just what she had hoped for. Some of the discussion validated ideas Paulson already had; other bits helped her decide which path to choose. Though an experienced desktop publisher, Paulson took online advice and retained a graphic artist to design the card.

She also tapped CompuServe member expertise for guidance on content. Members split on whether to include "writer-editor" on her card; some argued that it tells potential clients what she does, while others claimed it would set artificial limits on her services because she performs other types of work.

The resulting business card features her name, address, phone number, and CompuServe address; it doesn't include a title. Paulson, who laughingly concedes that developing the card became an obsession, is pleased with the results. "It's simple and effective, and people seem to like it," she says. "It achieves what I wanted it to: it says I'm professional and competent and creative.

"Everyone online had something different to offer," Paulson contin-



ues. "They were talking about different budgets and different priorities. The range of opinion really helped."

Kathleen Tinkel, a Desktop Publishing Forum sysop and longtime writer and graphic designer from Westport, Connecticut, offers several tips for members who *do* design their own card. She suggests that they begin by asking themselves a few tough questions. "Get to the essence of what you're offering," she says. "What is your company? What services do you provide?" She also says they should ponder the image they want to project: is it formal or in-your-face, traditional or pushing-the-envelope? Do they want to imply "expensive" or "discount prices"? What unwritten message do they want their card to carry? The answers to these questions affect everything from layout and design to card stock and colors, she adds.

After clarifying their requirements, members should browse through the Desktop Publishing, PR & Marketing, Entrepreneur's, Working From Home, and similar forums for appropriate sections in which to post questions. Tinkel suggests visiting Sections 10, "Layout/Art/Design," and 12, "Type and Typography," of the DTP Forum, where 200 to 300 design professionals are active.

Do-it-yourselfers can also download a number of business-card templates, often as shareware, from many of CompuServe's libraries. The templates allow users to create business cards on an as-needed basis on their own computers and printers. "This serves not only small companies," says Steve Teale, vice president of development for SoftCentre Inc. in New Jersey, "but . . . any company dealing with turnover, a change of address, or new phone [system]."


Teale, who uploaded an evaluation copy of his company's "LazerLabel for Windows" software to the DTP library, suggests using templates to tailor-make cards focusing on different aspects of your business. "When you make a presentation to a client," he says, "you don't talk about things that have nothing to do with him. I suggest that it's equally legitimate to give him a card that lists what you do in regard to him in particular."

### Electronic Business Cards

When conducting business in cyberspace, members can't exchange hard-copy cards after a firm handshake. To get that crucial contact information across, some businesses create electronic business cards that they affix to online messages. Also called "signature files" or "tag lines," they're found all over the Internet, though less commonly on CompuServe, and generally communicate the name of the company and a means of contact. Internet signature files tend to be more detailed and often include long statements of purpose and clever sayings.

Like most netters, computer consultant Singleton finds the latter annoying because it takes up space. When using the Internet, he adds a tag line that includes his name and his two Internet addresses because some Internet systems strip the headers, which contain the author's e-mail address, off messages. Such headers are left intact on CompuServe, so Singleton doesn't include a signature file repeating his User ID number in his CompuServe posts.

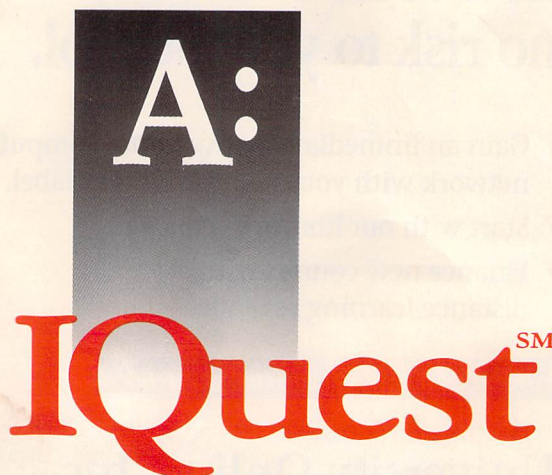
New York author and certified management consultant Lawrence Seldin does. "It's helped my business tremendously," says Seldin, whose tag line reads, "Author of POWER TIPS FOR THE APPLE NEWTON and INTRODUCTION TO CSP," and lists his CompuServe and Internet addresses.

"I'm a very heavy user of the forums," Seldin continues, "and my signature file lets people know who I am. It's a great marketing tool. A lot of people say you can't market in cyberspace, but that's a bunch of malarkey; you just can't be too blatant about it." 

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# Templates and Other Business-Card Files

CompuServe forum libraries contain everything from templates and shareware for designing and printing your own business cards to archived advice about business-card design and usage. The following is a list of available files.

## Desktop Publishing Forum (GO DTPFORUM)

### Business-Card Views

Transcript of a thread on the design of business cards, discussing the use of laser printers instead of commercial printing, response to vertical formats, and other design issues. Plain text for reading online or downloading. Library 1, "Forum Transcripts," BUSCD5.TXT (24,575 bytes).

### ViaPrint for Windows 3.0

Shareware program for printing business cards, labels, rotary index cards, and more. Prints any size label up to a full page. GO SWREG #2120 to register it online. Library 6, "PC DTP Utilities," GVTP30.ZIP (433,876 bytes).

### OsoSoft's Rockford 3.5

Shareware program for designing and printing business cards. It allows the use of fonts, clip art, and line-drawing tools and prints 200 percent camera-ready or on any pre-scored stock from Paper Direct or other paper suppliers. Includes color-printer support, rotate-text capabilities, foreign-character insertion, and horizontal/vertical layouts on pre-scored stock. Library 6, RCKFRD.ZIP (179,618 bytes).

### QuarkXpress Template

Template for creating horizontal business cards—10 per page on an 8.5" x 11" sheet. It has dotted trim marks and "safe" areas in case you want to avoid bleeds. Library 7, "Samples and Templates," 10BCQX.SIT (2,688 bytes).

## PR & Marketing Forum (GO PRSIG)

### Paper Sources

Seven companies that sell designed papers for business cards, brochures,



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and stationery. Library 11, "Products/Services," PAPERS.TXT (935 bytes).

### Working From Home Forum (GO WORK)

#### Business-Card Thread

A lively discussion on the use, design, and

benefits of business cards. Library 7, "Getting Business," BIZCRD.TH (41,763 bytes).

#### Paper and Printer Recommendations

This file contains sources for paper and printers of business cards. Library 7, BUSCD.TXT (4,475 bytes).

#### Business-Card Advice

Article reprinted from *Homebased Business News*, a magazine that serves the home-business community of the Pacific Northwest that explains the most effective methods of using your business card. Library 7, COSEFF.MAK (4,498 bytes).

tricks, and usage protocol. Library 7, BIZCAR.TXT (9,573 bytes).

#### Business-Card Catalog 1.0

Shareware program that enables the user to add, delete, change, print, or find desired business cards or personal addresses in an automated fashion. Users can search by last name, company name, or state. The program includes an online help system. Library 14, "Office Hardware/Software," BCC10.EXE (44,408 bytes).

#### LazerLabel for Windows

Windows word-processor file containing a description of this Windows 3.1 application for making business cards, mailing labels, formal-event stationery, promotional postcards, and more. Library 14, LAZLAB.WRI (5,760 bytes).

#### Design Tips and Tricks

Is your business card up to snuff? This file contains information on design tips,

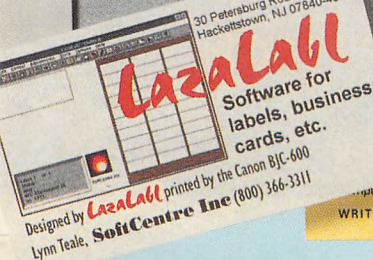
#### Tel-EMate 2.0 for Windows

A database program for business-card management. Comes with full online help. Library 14, TMATE2.ZIP (330,652 bytes).

D., J.D.  
Director

DL: GI  
BMV3  
22,22

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## Call of the Dialed

### PERSONAL ENTERPRISE

#### Where to GO

Computer  
Consultant's Forum  
**GO CONSULT**

Consumer  
Electronics General  
Forum  
**GO CEGENERAL**

NCSA InfoSecurity  
Forum  
**GO NCSAFORUM**

Office Automation  
Forum  
**GO OAFORUM**

Telecommunications  
Forum  
**GO TELECO**

Working From Home  
Forum  
**GO WORK**

#### ► Work-at-homers try negotiating the maze of new telephone tech.

Home-based businesses in the '90s have more telephone-related quandaries than simply deciding which long-distance carrier to use. The telephone market exploded during the last decade, and work-at-homers have come to rely on their phones (and their phone lines) for everything from voice mail to modem connections.

To make matters more confusing, the telephone market keeps changing, as local telephone companies offer more services, including caller ID, paging, distinctive ring, and remote call forwarding. Fortunately, telephone equipment has evolved to the point that, with a bit of help, nontechnical folks can set up surprisingly sophisticated systems on their own.

CompuServe members can sort through today's dizzying array of telephone options by turning to several forums. The Consumer Electronics General, Office Automation, and Telecommunications forums all have sections and libraries that focus on telephones, pagers, voice-mail systems, and even video-conferencing hardware. In addition, the Computer Consultant's, Working From Home, and other professional forums provide member-to-member feedback on personal experiences with complex phone issues. Online advice can help members get maximum phone functionality for the least amount of money.

"The Consumer Electronics General Forum is designed around communications," says sysop Dawn Gordon. "There is so much out there in telephone-land—both answering devices and some cordless phones come in analog and digital versions." Add to that the cornucopia of ring detectors, fax switches, four different types of fax machines, and phones that don't look like phones, and Gordon sympathizes with consumer confusion. "With all that's out there, you need a reasonable amount of help to sort through it all."

When shopping for the most efficient office telephone system, business owners should make a list of the functions they want and then explore the options. "Think carefully about each facet of your business and how it would work better with telephone hookup," says Toni Savage, sysop of the Office Automation Forum. "Get at least 50 percent more capacity than you think you will need because adding more later can get very expensive." Many very small businesses have heavier telephone needs than slightly larger ones because there isn't a full-time person devoted to answering the phone, she says.

However, small businesses may not need a dedicated business phone system, which consists of a Key System Unit, according to Gordon. (KSUs are boxes into which multiple phone extensions are wired—a KSU routes calls to various extensions, provides music on hold, and allows conference calling, paging,





BRIAN BEHNKE

# Hacker Tactics: Upping Phone Security

As telephone technology advances and prices drop, more and more small businesses are taking advantage of features from voice mail and 800 numbers to Direct Inward System Access, a technology that allows a traveler to make long-distance calls through the company's phone system.

Without adequate protection, however, small-business owners can wind up paying for long-distance calls they didn't make, or even allow hackers to get into their computer systems. "All this technology must be protected like a computer system," says Richard Miluski, a National Computer Security Association expert on voice-communications security and NCSA Info-Security Forum member. "Make sure you know what features and functionality your new technology has and how you can use it. Then remove any feature you are not using."

Below are Miluski's recommendations to ensure your telephone security:



Review all phone bills for unusual calls or an increase in the number of calls.



Have your local telephone company restrict access to 900, 976, and other exchanges for which you will be charged by the minute or by the call. For example, in the New York City (212) area code callers are charged for 540, 550, and 970 exchanges. Most local phone companies will block these exchanges from being dialed from your specific phone line at no cost.



Ask your long-distance company to restrict telephone calls to areas of the world that are known to have large numbers of fraudulent long-distance charges, such as the 809 Caribbean area code. Your long-distance carrier should have a complete list.



Protect phone and voice-mail-system maintenance ports, the serial or communications boards inside the equipment that a modem connects to, from illegal access

through telephone or modem. A technician can dial into the port and receive information about the equipment in order to diagnose problems. Disconnect the modem from the phone line and connect it back up only when it is needed. If you do not have remote-access maintenance, take the board out altogether. Or, if it is necessary, use a secure modem, such as a dial-back modem or a modem that has password protection.



Change passwords or PINs (personal-identification numbers) every 90 days and use the maximum number of characters.



Remove or disable DISA (Direct Inward System Access). Once the work is done, make sure you get a statement from the carrier that DISA has been disabled so you won't have to pay for future charges made by hackers.



Talk with your long-distance carrier about any toll-fraud or -prevention programs it may have. The company can monitor the pattern of your long-distance calling and alert you if there is an abnormal surge in calls. Such surges can indicate that a hacker is using your telephone line illegally.



Order Billed Number Screening from the local telephone company. This feature allows the subscriber to restrict collect or bill-to-third-number charges.



Order Origination Line Screening from the local telephone company. This option prohibits selected types of operator-assisted calls, allowing direct-dial calls only, for example.

—JS

intercoms, and more.) Instead, they may rely on a less-expensive two- or three-line feature phone that may incorporate speaker-phone, speed dialing, conference calling, and even the ability to put any line on hold in the phone itself. (Check out the files KSU-LE.SYS and PHONES.94 in Library 2, "Telephone Products," of the CE General Forum for detailed explanations of available phone technology.)

Bill Cornett, a systems technician for Bell Atlantic of Virginia and a member of the Telecommunications Forum, recommends at least two phone lines for any business. "Remember that communications is the backbone of most businesses, and being available for customers is essential." He says members should query other businesspeople as well as experts in the Telecommunications Forum and other small-business forums. "Get comparisons and opinions from salespeople, including marketing reps at your local telephone company," he adds.

As the single owner/employee of a home-based marketing-communications company in St. Petersburg, Florida, member J. R. Cox feared he was losing business when his line was busy. Which was often—a single voice line runs his fax modem, voice mail, and beeper. "I could really use three or even four lines, but I can't justify the cost right now," says Cox. "The big problem is connectivity on a budget."

His solution is to use the voice-mail ser-



vices of the local telephone company. When his line is busy, voice mail picks up all incoming calls for a monthly \$5 fee. "I can still capture voice messages when my phone is off the hook. And I don't have to use call waiting, then disable it when I'm running data over the phone line," he adds.

Marcia Yudkin, a Boston-area writer, combines an 800 number and remote call forwarding to make herself accessible any time of the day or night, at minimal cost. "I have two lines coming into the house," Yudkin says, one for her fax/modem and one for her voice line.

When she moved to a different town a few years ago, she realized she couldn't take her main telephone number with her—a major problem, considering the number had been printed in thousands of books and brochures. Her solution was to rent a voice-mail box from a voice-mail-box company and set up remote call forwarding to send calls to voice mail.

To keep her charges as low as possible, all calls to her 800 customer number are answered by voice mail. "I didn't want people to use the 800 number to call me and talk for half an hour," she says, explaining remote call forwarding runs \$16 per month plus three cents per minute because it's long distance. So callers to the 800 number can leave a message

up to three minutes long or call back on her direct line, which is not toll-free. That works out fine for most of her callers—"Seventy-five percent just need to leave a message." In addition, Yudkin notes, "an 800 number gives no sign of what time zone you're in. People do call at 1 A.M. and leave a message, but they don't wake me up."

Yudkin considers the costs reasonable. "An 800 line is cheaper than most people imagine," as little as \$5 per month plus a charge per call. Remote call forwarding is affordable as well, she says, especially with the system she's configured for herself. She estimates her monthly bill at just \$20 for about 50 calls.

Jay Thompson, who owns a radio sales and service company that provides support to Indy car-racing teams, has created a system to manage his shops and home offices in Indianapolis and San Diego and keep him connected while he travels to 17 races each year.

"I have four lines in each city as well as a local voice-mail number. I use an 800 number and call forwarding to allow my customers to reach me without having to figure out where I might be." Remote access to call forwarding allows him to receive calls to his shop or home office in either city, or to voice mail when he's

traveling. "Distinctive ringing lets me dial into my PC at home from the shop and transfer files without the cost of a third line at home." With distinctive ringing, Thompson can have two phone numbers on one line—one

number rings the fax, the other goes to the modem. He uses Laplink 5's modem capability to share data among his

four desktop PCs and one laptop. Thompson, a member of the Racing, Telecommunications, and Broadcast Professionals forums, says he bought the ring detector from a member of the Telecom Forum.

Austin, Texas-based programmer Reed Rinn's situation is still more complex. Though he has an office at his company's main location, he works at home a lot and travels frequently. "I have four telephone lines going into my home: the family line, a separate line for the kids, a line for business and fax/modem calls, and an ISDN [Integrated Services Digital Network] line that connects my home LAN and my office network." (ISDN allows voice and data to be carried on the same line.)

Rinn wanted access to the three voice lines throughout the house, telephone answering services, and caller-ID displays for all three lines, as well as remote notification when messages were left on his line (through his

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beeper). And he wanted to "do all of the above without having my counter-tops and desks cluttered with several different phones and answering machines." With a little online assistance, he made it all work.

"Through the Consumer Electronics Forum on CompuServe, I was able to find information on phone systems that would meet my needs," Rinn explains. "I was able to contact manufacturers and

vendors and correspond with them about their products, and was also able to get immediate support for installing and using these phones."


Instead of three phones, two answering machines, and three caller-ID boxes in the kitchen, Rinn now has one telephone and one answering machine with integrated caller ID

there. That two-line telephone handles the family line and the children's line. "I don't have to deal with calls to my kids' phones, as the answering machine puts their messages in their own voice-mail boxes."

Another telephone, which handles both the family line and Rinn's business line, is located in his home office. If Rinn isn't there to answer

a call on his business line, the answering machine pages him when a message is taken for him. And caller ID, by providing a digital readout, or even voice announcement, of the name and phone number of any caller, lets him screen out calls he doesn't want to take.

As businesses consider their telephone needs, they shouldn't be shy about seeking advice online. "Ask others with similar businesses what they have and what they like and don't like," says Toni Savage of the Office Automation Forum. "Also, getting a consultant or telecom-installation company to help is definitely worth it."

Many independent telecom consultants can be found in online forums. 

Jan Smith is a freelance writer based in Jamaica Plain, Massachusetts. Her CompuServe User ID number is 74774,2201.

See "Phone Buyers' Guides, Shareware, and Other Files," p. 38.



BRIAN BEHNKE



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# Phone Buyers' Guides, Shareware, and Other Files

Finding the perfect telephone system for your needs is like trying to jump onto a moving train: the technology advances while your needs change. The good news is that fellow CompuServers and timely forum files can help you get aboard. Forum libraries include everything from product reviews to shareware programs that make your telephone system work for you. Below is a sample of available files.

## COMPUTER CONSULTANT'S FORUM (GO CONSULT)

### Caller ID Explored

This file presents caller ID's pros and cons and raises issues of personal privacy. It also addresses the potential concerns of "mobile professionals" who borrow telephones in visited offices or other locations to make necessary calls. Library 6, "Political & Legal," CALL-I.TXT (9,831 bytes).

### Cable Discussion

Considerations on what cable type to run and how to install it for a network and telephone lines. This member discussion presents specific suggestions and tips on the topic of cabling. Library 7, "Connectivity," TWIST.THD (18,372 bytes).

### MessageWorks 3.0a

A Windows application that replaces the messy telephone message pads used in most offices. It can be used on a single PC or a network and offers automatic message notification. It also maintains a log of all messages and an integrated Rolodex database of caller information. Shareware. Library 8, "Microcomputer," MWORK3.ZIP (269,988 bytes).

## CONSUMER ELECTRONICS GENERAL FORUM (GO CEGENERAL)

### Phone Products Buyers Guide

Guide discusses the latest in cordless phones, feature phones, answering machines, and fax machines. Also includes a shopping-around guide and a Best Buys section. Library 2, "Telephone Products," PHONES.94 (33,478 bytes).

### KSU-less Multi-line Systems

A discussion of user-installable multi-line phone systems, suitable for home or small business, that do not require a central-control box (KSU). This file also includes reviews of available products. Library 2, KSU-LE.SYS (31,136 bytes).

### Buying an Answering Machine

This article outlines current answering-machine features and will help you choose one to meet your needs. Library 2, ANSWER.ART (4,220 bytes).

### Cellular Telephone Buyer's Guide

A guide covering portable and mobile phones that includes a Best Buys and a shopping section. Library 3, "Cellular Products," CELFON.94 (15,963 bytes).

## OFFICE AUTOMATION FORUM (GO OAFORUM)

### Telecommunication Thread

An informative reply posted by a member in response to a question about phone systems for medium-size business (fewer than 20 lines, fewer than 100 phones). Library 16, "Com/Fax/Phone," TELHLP.TXT (7,059 bytes).

### Phone Book for Windows 2.4

A phone/address-book program that organizes contact information—works with Windows 3.1. It includes fields for name, addresses, two phone numbers, fax number, and comments. It holds an unlimited number of entries and automatically sorts them; also offers searching, modem dialing, printing, and much more. Shareware. To register online, GO SWREG, ID# 3670. Library 16, AMPB24.ZIP (189,736 bytes).



## TELECOMMUNICATIONS FORUM (GO TELECO)

### FCC Report on Telephone Trends

An ASCII version of the FCC's semi-annual report on trends in telephone service. The tables referred to in this report are up-

loaded separately as TABLES.ZIP. Library 1, "News/Telecom Digest," TREND9.TXT (37,915 bytes).

### New Technology

Background article on Discrete Multi-Tone (DMT) digital-subscriber line and other technologies being studied by the local-exchange carriers for use with video- and broadband-services delivery and high bandwidth. Library 7, "Data/ISDN," ADSLBG.TXT (7,094 bytes).

### Info-Packed Thread

Information file on cellular telephones, the Electronic Communications Privacy Act, scanner modifications, and more. Library 9, "Cellular/PC," CELLPH.TXT (180,329 bytes).

### New Integrated PC

News release on the new multimedia PC from AT&T—the Globalyst 360T—that integrates advanced telecommunications capabilities. Library 9, GL360.TXT (6,507 bytes).

### PageMate 3.3

Latest version of software that monitors your telephone line for incoming ring and calls your pager (or other number) to notify you of messages left on your answering machine. Also has 100 user-definable pager alarms and a call log. Runs in foreground (DOS) or in background under Windows 3.1 Enhanced Mode. Shareware. Supported by author on CompuServe. Library 10, "Paging," PAGE33.ZIP (50,876 bytes).

### Security Tips

Tips from AT&T on avoiding telephone fraud. Library 13, "Consulting/Careers," FRAUD.TIP (8,431 bytes).

## WORKING FROM HOME FORUM (GO WORK)

### Choosing a Telephone System

This thread contains tips on choosing the right telephone system for your business. Library 14, "Office Hardware and Software," TELESYS.THD (6,905 bytes).

### One Line, Two Phones

A file discussing solutions when more than one device shares the same telephone line. Library 14, LINESH.THD (4,937 bytes).

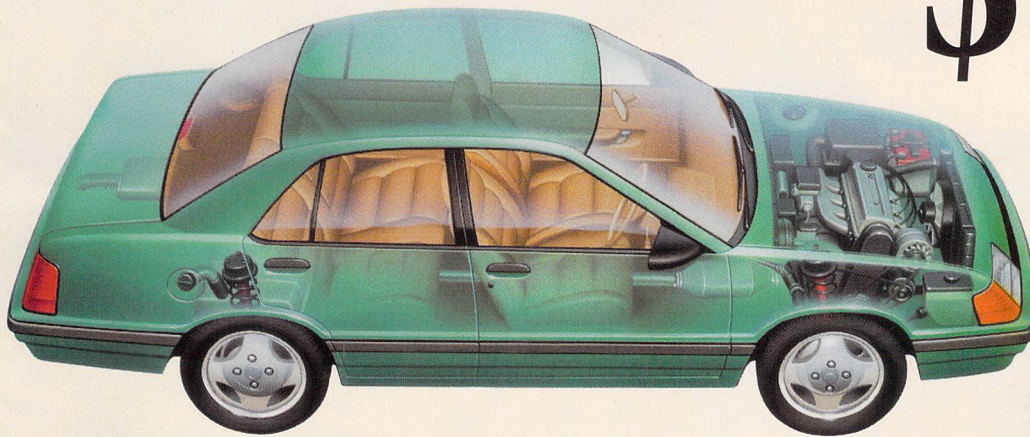
### Fax-on-Demand

For those considering a fax-on-demand system, this article details several features you should look for when making a decision. Uploaded by the author. Library 14, FAXVAU.TXT (5,153 bytes).



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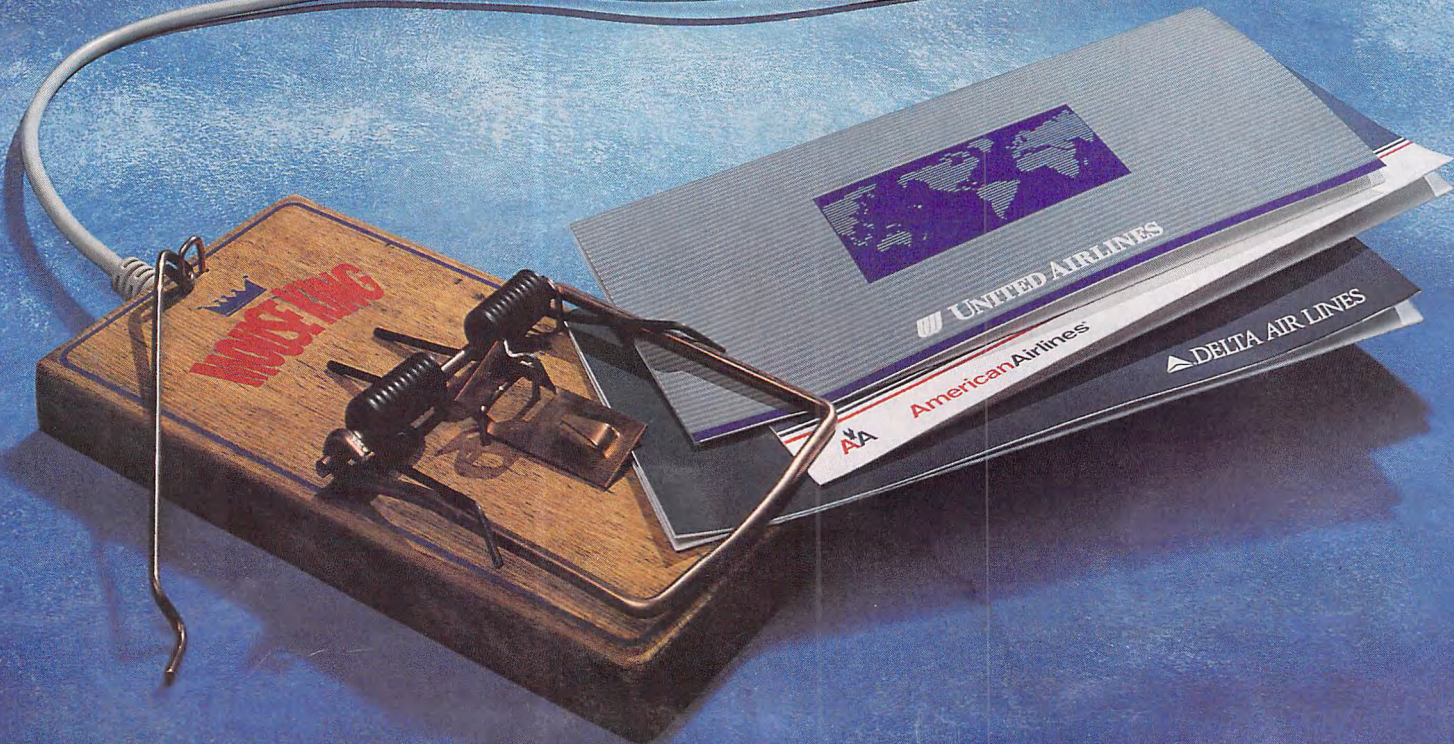
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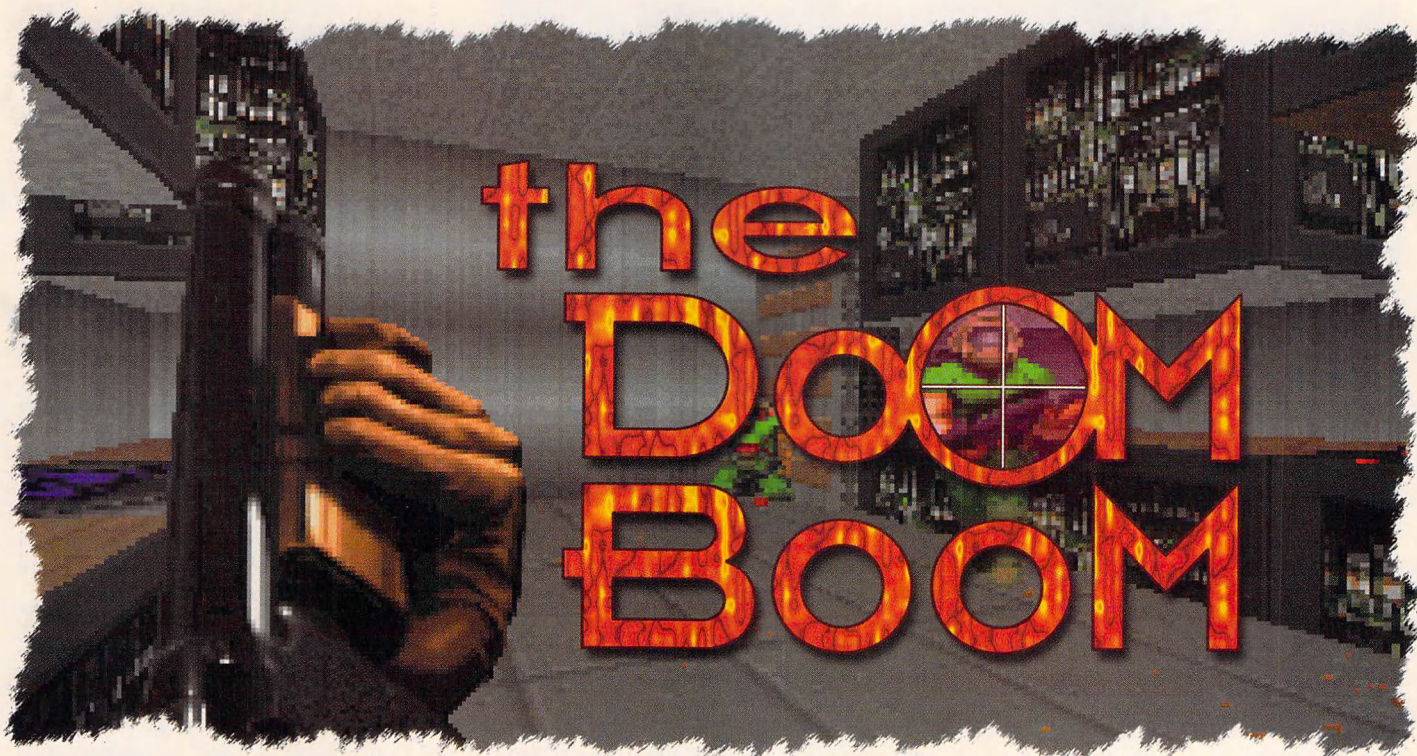
We don't just work here. Come fly our friendly skies.



 **UNITED CONNECTION**



by Andy Rathbone



► **How did the shareware gore-fest get so popular? Online sharing of utilities and playing levels.**

When a growling, chain-saw-wielding co-worker dashed past his cubicle, Stan Spielbusch knew it wouldn't be an ordinary Friday morning at the office. Prepared for the worst, Spielbusch grabbed a nearby Plasma Rifle and followed silently. Suddenly, a noise rang out from behind and both men turned their heads. But it was too late: a band of troopers burst out of the coffee room and started spraying the room with rockets. Spielbusch, simply put, was doomed.

Or he would have been, had the action not taken place safely on his computer screen. Spielbusch and three co-workers were using their office network to play a customized version of Doom, the infamous kill-or-be-killed shareware computer game by id Software. The action in Doom is so realistic (and addicting, players say) that it can be found on an estimated 16 million hard drives around the world. With five library sections devoted to it containing thousands of related files and utilities, Doom is one of the most talked-about programs in CompuServe's Action Games Forum.

In Doom, players assume the role of a toughened Space Marine who stomps through corridors and rides elevators in a search of secret rooms, deadly weapons, and an occasional breather from the bloodthirsty monsters lurking around the corner. Players relish the moments when they "frag" the bad guys with a shotgun, chain saw, or worse and engage in "DeathMatches" where they can play with (or against) friends and enemies by linking their computers using a modem, net-

work, or serial cable. When players manage to find an exit chamber amid the carnage, they've completed one of the game's levels. Doom briefly displays their performance statistics, and the next level begins, complete with a new floor plan and a new set of foes.

"Doom was the first virtual-reality game to really achieve immersion," said Sunnyvale, California-based programmer and self-admitted Doom addict Jim Flynn. "By immersion, I mean my friends and I are sometimes nearly knocked out of our chair while trying to duck the fireballs. Like with a good movie, you can easily forget the artificiality of the experience and become viscerally involved." Indeed, the shareware game's commercial version, Doom II, contains violence so realistic that the box warns of the gore contained inside. Players need not only a strong stomach but a strong computer: Doom II requires a '386 computer with a minimum of 8MB of RAM and at least 17MB of hard-disk space. id Software recommends a '486 machine for more lifelike action.

The amazing popularity of the game, players say, comes from id Software's decision to leave it open to customization. Once they understand the basics of Doom design, enthusiasts can use third-party utilities to personalize every inch of their Doom environments. Basically, Doom consists of a graphics "engine" which manipulates information stored in a huge "WAD" file. The WAD file contains a collection of floor plans, graphics, sounds, and animation that compose a Doom world. Hardcore fans, hungry for new levels, have developed programs that let them design custom WAD files. The resulting files, which are traded in the Action Games Forum, have ex-

## RANDOM ACCESS

### Where to GO

Action Games  
Forum  
**GO ACTION**

Modem Games  
Forum  
**GO MODEMGAMES**

Novell Information  
Forum  
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tended the life of the game considerably.

One of the first and most powerful programs, Doom Edit Utility, or DEU, quickly became a classic. Written by Raphael Quinet and Brendon Wyber, DEU almost single-handedly created enough interest in game-level writing to support a community of WAD writers and players, says Flynn. "It's incredibly fun to design a little world of your own and then watch your friends as they try to live through it." This is a freeware utility, and many part-time programmers have adapted

*Andy Rathbone, author of Windows for Dummies, gets motion sickness when he plays Doom for more than 10 minutes. His CompuServe User ID number is 75300,1565.*





A real "killer" place: Stan Spielbusch turned his office into a PWAD for Doom.

DEU code and come up with editors of their own.

By using editors like DEU to create a new WAD for Doom, players can place themselves in a completely unfamiliar atmosphere—or, like Spielbusch, in their own office. "We started playing Doom II at work during lunch and after work," Spielbusch said. "We decided that our office would make a good playground because of its layout."

Spielbusch found the office floor plans and used DEU to create a patched WAD, or PWAD (patching entails taking an existing WAD file and changing it), of his office, complete with the appropriate cubicles, lunch room, and smoking room. After work, up to four employees can be found blowing each other up, shooting long-range missiles down the hallways, and firing shotguns over the cubicle walls.

User-created WADs are easily the most

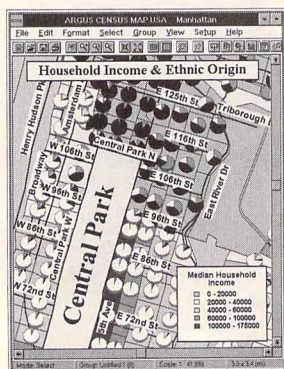
popular Doom add-on. Doom player Derek Morton uploaded a PWAD resembling his apartment so he could blow up his roommate. Economics student Oliver Spiesshofer is working on a PWAD re-creating his school, the University of Economics, in St. Gallen, Switzerland. "The ability to create your own 'worlds' or levels is the most captivating feature of Doom," says Oregon resident Scott Harper. "I have never played a game that allowed so much individual creativity. With all the editors and utilities out there, one has virtually no limit. You can add your own graphics, sounds, monsters, weapons, and unique traps and tricks."

"With little or no cost to the end user, the PWAD files present new challenges and new gaming experiences," echoes Doom fanatic Chris Klie, who's written more than 40 Doom levels and co-authored the book *Doom: The Lost Episodes* (Sybex, 1995). "They expand on an already expansive game to help the end user get the most bang for his buck."

Flynn, who's downloaded more than 800 PWADs from the Action Games Forum libraries, agrees. "You can only play the same levels so many times before it gets kind of old," he says. "I don't think there's any question that interest in Doom would have died out a long time ago were it not for the ability of users to create their own levels."

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DeuTex, another utility, makes it easier to add new textures and sounds to the game's playing fields. By changing the color and texture of the game's walls, floors, and ceilings, the utility can add a fresh look to a game that's more than a year old. Some players upload GIFs and MIDI files to be used as textures and soundtracks as well.

Because Doom allows players to record their games for later viewing as onscreen "movies," such LMP or "lump" files of chilling DeathMatch footage are also popular uploads. Other players record and upload LMP files to offer game clues, such as a movie showing newcomers where to find a chain saw in level 2.

Many of the most popular Doom-related forum files simply contain information: an explanation of the Doom measurement system, including sizes of monsters and doorways; detailed floor-plan maps of all the game's levels; lists of cheat codes that give extra powers when typed in at the keyboard; and tips on the finer points of level design, like explanations of how sound travels from sector to sector, where it's eventually heard by neighboring monsters.


Jay Wilbur, president of Mesquite, Texas-based id Software, says the company was surprised and elated to see players create new levels for the company's previous hit game, Wolfenstein 3D. When the programmers sat down to create the Doom series, they left the game open for alteration, and third-party hackers were quick to take up the challenge. "We knew people would make WAD files," Wilbur says, "but we never thought it would be such a big industry. It's very cool; we're delighted that people are so into the game that they want to create levels themselves."

Wilbur says id Software doesn't plan on releasing its own editors. The freeware edi-

tors are evolving into quite complex editors in their own right, he says, and rather than spend time on editors, "we'd rather work on the next game."

While the Action Games Forum serves as the largest Doom meeting place, players also swap tips, tricks, utilities, and PWADs in several other forums. In the Novell Information Forum, for example, Doom players often discuss how to set up company computers for playing DeathMatches. (And almost as frequently, network administrators discuss ways to keep Doom off

the corporate systems.) In the Modem Games Forum, members swap area codes to find potential players without calling long distance.

"Without the utilities, it would all come to a screeching halt," Harper says of the culture that continues to grow around Doom. "But id Software made a very good move. It allowed people to add to the game. When you finish any game, there's not much point to going back and doing it again, unless it's different." 

See "Carnage Helper," p. 44.

## RANDOM ACCESS

### Hot Games Has Doom II

Download id Software's Doom II: Hell on Earth, the commercially released follow-up to Doom, from the Hot Games Download Area (GO HOTGAMES). Choose Option 3, Download Hot Game Files, from the main menu, then Option 1, Doom: Hell on Earth. The next menu has options for retrieving information (including system requirements) and choices for downloading the necessary files. The cost for retrieving Doom II is \$29.95; standard CompuServe connect-time charges apply during downloading.

A shareware version of the original Doom game is also available in the Hot Games Download Area as Doom Version 1.8, DOOM18.ZIP (2,482,469 bytes).

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WinCim is available free of charge for downloading in the GO WINCIM area online.

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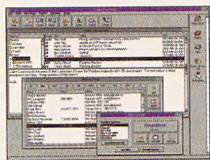
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# Carnage Helper: Doom Utilities and Levels

CompuServe is home to a wide variety of Doom-related files as well as the shareware Doom and commercial Doom II programs themselves. Not all files work with all versions of the game, however; most new levels and add-ons, including PWAD files, work only with registered versions of Doom or its commercial sequel, Doom II. Here are some of the more popular Doom-related files found on CompuServe; all are for IBM or compatible PCs.

The Action Games Forum (GO ACTION) also holds a Doom Conference every Saturday at 6 P.M. ET.

## NEW PWAD LEVELS FOR DOOM II



(To run a WAD file—MYWAD.WAD, for example—copy the file to your Doom directory and type DOOM-FILE MYWAD.WAD at the DOS prompt.)

### Blindside

Large level with lots of action and good puzzles. Action Games Forum (GO ACTION), Library 21, "Doom II Levels," DM2BLS.ZIP (92,074 bytes).

### The Final Gathering

Breathtaking, four-level mini-episode with full support for DeathMatch and cooperative network play. Action Games Forum, Library 21, DM2GAT.ZIP (326,512 bytes).

### Crossing Acheron 2 and Dante's Gate

Two popular levels based on Dante's Inferno. Action Games Forum, Library 21, DM2ACH.ZIP (58,092 bytes), DM2DAN.ZIP (55,331 bytes).

### Voidship

Defeat the enemy crew on the intergalactic voidship, then find the exit portal that lets you leave the ship. Action Games Forum, Library 21, DM2VOI.ZIP (167,635 bytes).

## NEW PWAD FILES FOR REGISTERED DOOM I



### The Infestation

Large level designed for single and cooperative modem play, complete with unpredictable enemies, secret passages, and monsters aplenty. Action Games Forum, Library 20, "Doom 1 Levels," DMIFST.ZIP (64,127 bytes).

### The Lost Level

Secret level with hard-to-solve puzzles and distinctive architecture. Action Games Forum, Library 20, DMLOST.ZIP (69,536 bytes).

### Dooms Day of UAC

One of the original Doom programmers' favorite add-on levels. Action Games Forum, Library 20, DMUAC.ZIP (145,413 bytes).

### Bad Apartment

Layout of author's apartment, built for destroying roommate. Action Games Forum, Library 20, BADAPT.ZIP (18,507 bytes).

### Office Building

Layout of author's corporate workspace, built for office matches. Action Games Forum, Library 20, DMOBLD.ZIP (32,714 bytes).

## DOOM UTILITIES



### Doom Audio Editor

Stores and extracts sounds from PWAD files. Action Games Forum, Library 18, "Doom Editors," DMAUD.ZIP (36,424 bytes).

### WADGOD

Automatically unzips a WAD file, plays the game, then deletes the unzipped WAD at the game's completion. Action Games Forum, Library 19, "Doom Utilities," WADGOD.ZIP (172,344 bytes).

### Doom Setup

Start single or multiplayer games from any level; load multiple WAD files; record your game; store phone numbers; and access every other feature of Doom, Doom II, and Heretic. Action Games Forum, Library 19, DOOMIT.ZIP (92,656 bytes).

## DOOM INFORMATION FILES



### Cheat Codes

Secret "type-in" codes for unlimited weapons, armor, and other helpful tools. Action Games Forum, Library 17, "Hot: Doom II," DM2SOL.TXT (992 bytes).



#### Official Doom FAQ

Answers to frequently asked questions about all aspects of Doom. Action Games Forum, Library 17, DMFAQ.ZIP (126,905 bytes).

#### Doom Proportions

Text file describing "scale" of Doom world, including sizes of monsters, doors, and stairs. Action Games Forum, Library 18, "Doom Editors," DMMET.ZIP (4,165 bytes).

#### Doom Design FAQ

Answers to frequently asked questions about Doom PWAD design. Action Games Forum, Library 18, DESFAQ.ZIP (29,323 bytes).

#### Doom Modem Help File

Lists INIT strings for popular modems. Action Games Forum, Library 19, "Doom Utilities," DOOMMD.TXT (15,694 bytes).

#### DOOM EDITORS



##### DEU Object/Thing Editor

Complete Doom editor for changing monsters, architecture, and adding new levels. Action Games Forum, Library 18, "Doom Editors," DEU.ZIP (497,157 bytes).

##### DEU Texture Companion

Create PWADs with customized graphics, sounds, textures, sprites, and flats. Action Games Forum, Library 18, DEUTEX.ZIP (157,915 bytes).

##### DeeP

Complete rewrite of DEU; has level testing, Doom-to-Doom II conversion, and more. Action Games Forum, Library 18, DEEP.ZIP (521,348 bytes).

##### Renegade Graphics Doom Editor

Doom and Doom II level editor that works under Windows 3.1. Action Games Forum, Library 18, RDGMED.ZIP (580,047 bytes).

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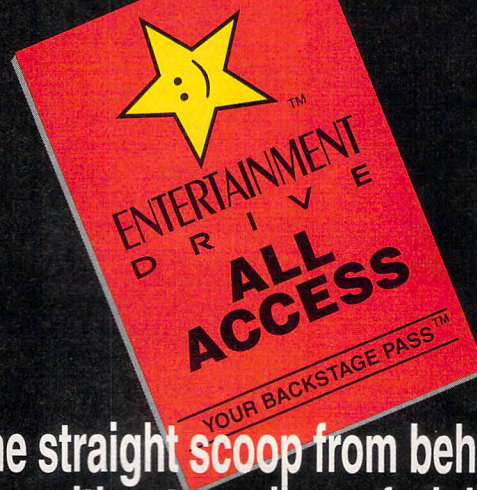
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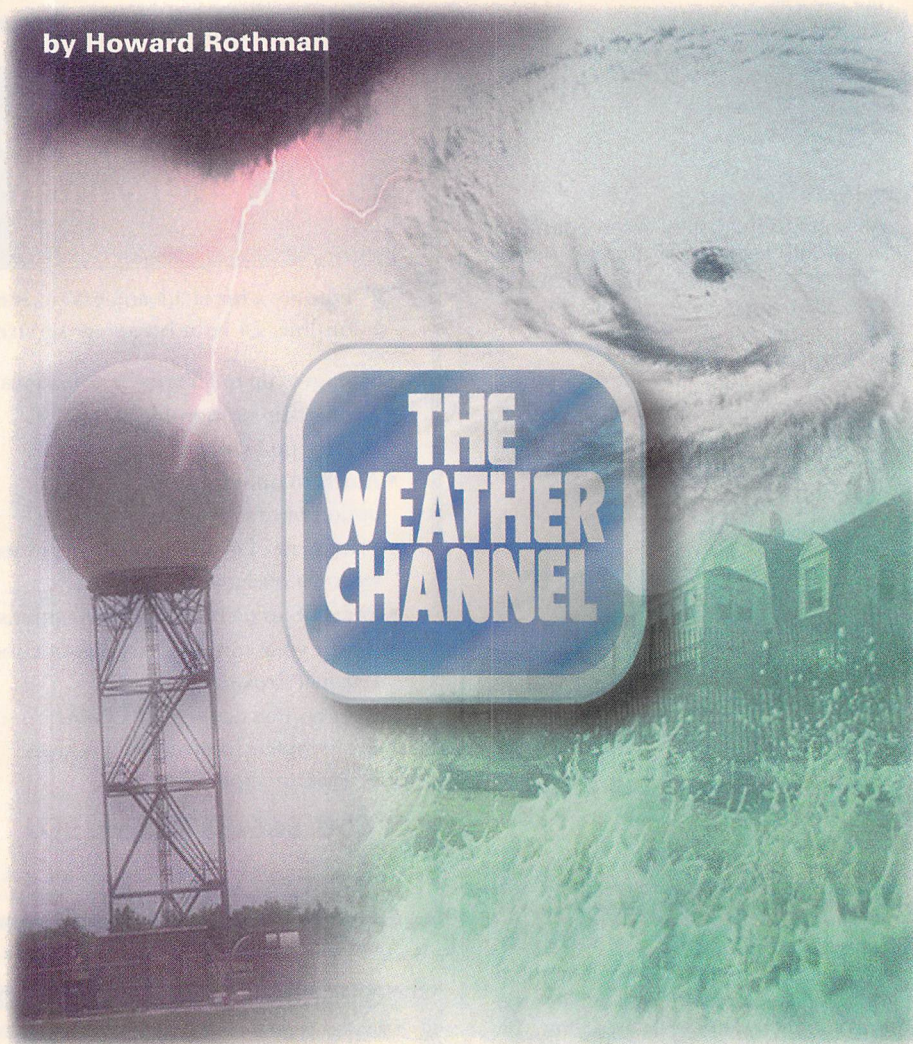
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by Howard Rothman



## A Forum for All Seasons

### RANDOM ACCESS

Where to GO

The Weather  
Channel Forum  
**GO TWCFORUM**

#### ► Talk about the weather! Sure, in The Weather Channel Forum.

To many people, "weather" is more than the state of the Earth's atmosphere at a specific time and place. Instead, temperature readings, moisture levels, and observations on barometric pressure are pieces of a much larger and ever changing puzzle that both fascinates and frustrates. Others feel less strongly about record highs and rainfall totals, of course, but even they get caught up in the phenomenon when it directly affects their lives or those of people they know.

Wherever your feelings fall on the weather gauge, there's probably a spot for you on CompuServe's meteorological map. There are local forecasts, national maps, aviation and marine reports, radar and satellite depictions, severe-weather alerts, and listings of current conditions. And for those who can't get enough—along with those who sometimes need an answer to a specific weather question—there is now The Weather Channel Forum. Launched in February by the popular cable-television network for which it is named, the lively forum attracts professionals, dedicated amateurs, and interested observers. Naturally, it has also proven to be a

hangout for the many fans of The Weather Channel who subscribe to CompuServe.

Sysop Jim Wilson, a 13-year TWC veteran, works to make the forum as multifaceted as the network and the subject it covers. Members use the forum to sound off on topics ranging from home weather instruments to methods of teaching weather in the classroom. The forum allows users to communicate directly with weather organizations and meteorological professionals, evaluate local and national weather reporting, and discuss anything and everything that interests them about The Weather Channel itself—from its background-music playlists to information about its on-air personalities.

The Weather Channel Forum's libraries contain hundreds of files, including severe-conditions safety tips, weather facts and historical tidbits, and GIFs of full-color U.S. weather maps captured in six-hour intervals. The playlists of TWC background music in Library 2, "Programming," have proven so popular that the network has considered releasing a CD collection of hits.

When Wilson introduced The Weather Channel to CompuServe, he was surprised to find such a captive audience, which included

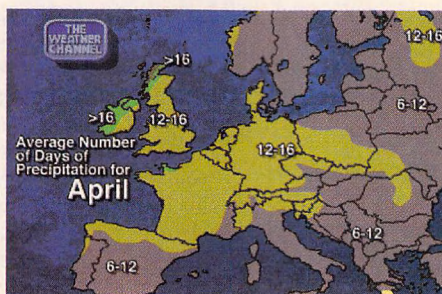


hundreds of Aviation Forum members who were hungry for yet another source of weather facts and flying conditions. "It was amazing to see how many people love The Weather Channel," Wilson says from TWC headquarters in Atlanta. "We received overwhelming praise and acceptance almost immediately from the CIS crowd."

Questions of all kinds fly in the forum's 22 message sections, and sysop Wilson does his best to answer each within a day. "Some questions are harder than others and require research, but we'll dig to get an answer," he says. "If we can't find the answer, you know someone else will chime in. That's the great thing about an online community." When member Kim Gianop experienced heavy turbulence during several flights as a passenger over the Pacific Ocean, she posted a question to Section 1, "Get Info on Forum," wondering if a specific weather pattern was to blame for the bumpy ride. Wilson's answer: warm waters associated with the current El Nino have allowed a very strong and busy subtropical JetStream to remain in that area. "These conditions favor turbulence," Wilson responded. "Keep your Dramamine handy." An ensuing thread then went on to include several pilots who discussed other causes of turbulence, including uneven terrain, wind velocity, and cloud formations.

The forum includes several sunny cyber-spots where data is shared and tales are traded. Weather folklore and storm stories are passed around in Section 12, "Folklore/Stories," and the pros and cons of winter (mostly pro) are traded in Section 6, "Snow . . . Snow . . . Lovers!" Two associations, Online Weather Watchers (OLWW) and International Weather Watchers (IWW), conduct their business and interact with both members and prospective members in Sections 10 and 11, and teachers gather in Section 9, "Educator's Exchange." Throughout the forum, professional meteorologists such as Bret Atkins of WCMH-TV in Columbus, Ohio, and Rod Phillips of WPEN radio in Philadelphia, Pennsylvania, log on as many as four times a day to answer questions and offer insights. Jack Williams, longtime editor of *USA Today's* weather page, has been known to upload files and interact with the forum membership.

"Weather is the love of my life," says forum regular Bill Murray, who's turned his longtime passion for the subject into a successful second career. The president of a Trussville, Alabama-based hotel-management firm, Murray is a relief TV weathercaster in nearby Birmingham as well as the founder of a company that provides weather forecasts to hotels. "A lot is just entertainment," he says of the forum, "curiosity about the [on-air] personalities, shareware software, reminiscing about famous storms." But there are other aspects, he notes, that help him "keep up with

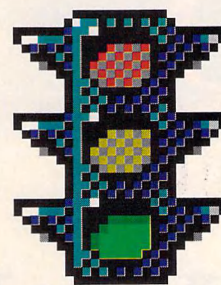


Get weather-at-a-glance in The Weather Channel Forum. **Top:** The average number of precipitation days in April for Europe regions (EURO4P.GIF).

**Bottom:** A comparison of drought conditions in the western United States in summer 1994 and winter 1995 (0217AD.GIF).



## To learn about CompuServe



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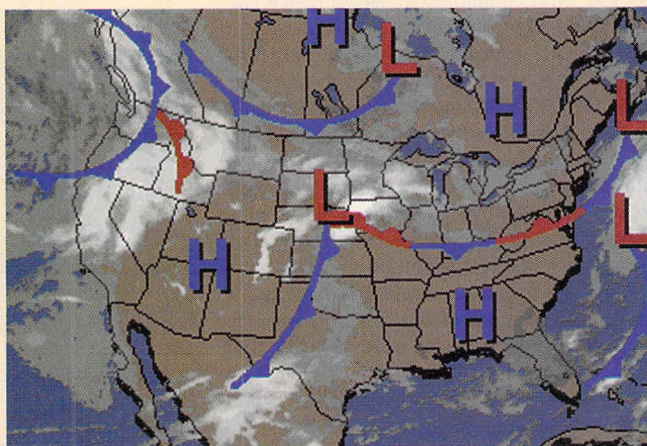
**Q:**

**YOU NEED  
ANSWERS  
THAT ARE  
RIGHT ON  
THE MONEY.  
RIGHT NOW.**

**WHERE DO  
YOU GO?**

what's going on in the field."

"I've been interested in severe weather my entire adult life," says Allentown, Pennsylvania, dentist and mother of three Terese Du Pont. "Dr. Mom," as she refers to herself, says she's checked into the TWC Forum nearly every day since it went online. In one of her earliest visits she stopped by Section 7, "Chasing Storms!" (one of the forum's most popular), to ask why the clouds of tornadic thunderstorms often seem to have a greenish or yellowish tinge. No one really knows, she learned right away, despite wide observation of the phenomenon. "That's something I've wondered about for a long time and was unable to find the answer to in the books that I have," she says. Before her family travels, Du Pont also consults CompuServe's other weather services, which include detailed radar maps and regularly updated weather reports for locations around the world. (See "The Forecast?" below.)



### **The Forecast? Maps and Reports Tell**

The Weather Channel Forum is just one place to find weather news online. CompuServe Weather, part of basic services, provides maps and reports covering more than 15 countries. It gives members access to frequently updated radar, temperature, satellite, and depiction maps, as well as maps of tomorrow's weather, tonight's highs and lows, 48-hour weather forecasts, and more. (Note that some maps are not available for non-U.S. locations.)

For a specific weather map, CompuServe Information Manager users should GO MAPS, click the Location box, and then enter a desired city, state or province, and country. Next, select the map you want to view. Once a map is selected, click on View. The map will be displayed onscreen. Other CIM Map options let you access CompuServe's weather reports (choose the Reports button) and the pilot-oriented U.S. National Weather Service Aviation News (choose the Aviation button).

Members can also read text reports categorized by short-term forecasts, state extended forecasts, severe-weather alerts, precipitation probability, regional summaries, daily climatological, sports and recreation, and marine forecasts. (Note that only short-term forecasts are available for locations outside the U.S.) CIM users should GO WEATHER, then click the Location box and enter the desired city, state or province, and country. Next, select the reports you want to read. Choose View, and CIM will pull up the reports one by one. For a description of each type of report, click on Aviation, then choose Option 12, Instructions, then Option 1, Public Weather, and finally Option 2, Descriptions of the Reports.


—Tracy Mygrant



Andrew Batsch, a press photographer working out of Melbourne, Australia, doesn't consider himself a weather buff, but he also uses CompuServe weather services to assist in travel planning. He checks on conditions around the globe in the TWC Forum two or three times each week, and in late February stopped by Section 18, "U.K./European Weather," for some precise information. "I was trying to find out what weather I could expect on my trip around Europe," he says. He did.

A San Francisco ad-agency account manager joined the forum recently with an important but somewhat non-weather-related question and posted it to "Dear TWC." He and his fiancée were planning their wedding date for late October and, because they wanted to hold part of the reception outdoors, needed a day with as much afternoon daylight as possible. "What day does Daylight Savings Time end in 1995?" he wrote in his message.

"I had a good feeling that someone there would know, and I've always had good luck getting answers from CompuServe members in other forums," says the member, who prefers to remain anonymous. Sure enough, an answer was posted just 15 minutes after his query. "October 21 it is," the adman wrote back later. "Wish me luck."

Such problem solving thrills The Weather Channel's online administrators; who say the forum's value is much broader than just reporting on sun and rain. Says Ellen Barre, TWC's manager of online services, "We want to build an area that CompuServe members can come to for *all* their weather-related needs." 

Howard Rothman is a freelance writer based in Littleton, Colorado. His CompuServe User ID number is 74643,623.

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## DAYS OF WINE AND PORK CHOPS—

Where else besides the Cooks Online Forum might you find great recipes? Try the Bacchus Wine and Beer Forum (GO WINE-FORUM), in Library 9, "Food and Beverages." There you'll find many archived-text uploads of Jim Holmes's online column "Jim's Kitchen," in which he puts forth the ingredients and techniques involved in creating numerous savory dishes, as well as suggestions on an appropriate wine for each meal. Holmes, who nourished a love of cooking after an 11-year stint in the U.S. Air Force, also relays notes on how his own preparation of each dish proceeded. Recipe files include Camper's Pasta with Zinfandel, Tangerine Chicken with Gewurtz, and Chinese Chicken Salad with Riesling. For a selection of files, search the library with the wild-card file name JK\*.TXT (2,000–5,000 bytes each). Also, check the messages in the corresponding Section 9, "Food and Beverages," for more recent postings of his column. **T**

**SHAKY STATE**—If you're going to visit the U.S.'s West Coast or wouldn't mind having a bit of it on your desktop, you'll find the California Forum (GO CALFORUM) has helpful informational files and some pretty pictures (search all libraries by the wild-card file name \*.GIF for a selection).

## Library 2, "San Diego Area"

**Hotels California**—A list of suggested San Diego accommodations based on input from AAA and Fodor's guides and visitor feedback.

SDHTLS.TXT (22,202 bytes) **T**

### Key to Mentioned Files

<b>A</b> Animation	<b>M</b> Macintosh
<b>D</b> DOS	<b>O</b> OS/2
<b>G</b> Graphics	<b>T</b> Text
<b>H</b> HTML Text	<b>W</b> Windows

## Library 4, "LA Area"

**Two Days in L.A.**—Robert Nunally suggests sights and stops to try for tourists or businesspeople on a short stay in Los Angeles.

2DAYLA.TXT (6,670 bytes) **T**

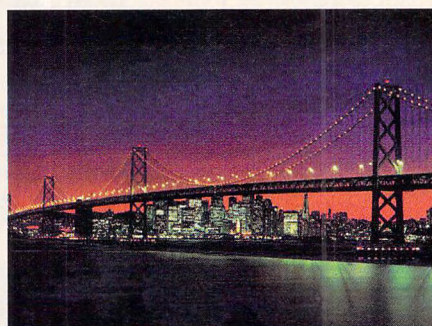
**View From the Hills**—The lights of L.A. twinkle in all directions below in this GIF taken on a clear night.

LA.GIF (158,689 bytes) **G**

## Library 6, "SF Bay Area"

**Bay Bookstores**—A frequently-asked-questions file from the Internet listing San Francisco businesses of interest to the bibliophile or browser.

SFBOOK.TXT (64,937 bytes) **T**



**Frisco Alight (above)**—This high-resolution image shows downtown San Francisco glowing at night as seen from the far side of the Bay Bridge. A big file but worth it.

SF3.GIF (496,298 bytes) **G**

## Library 8, "CA Information"

**Don't Speed in a Hyundai**—Another Internet FAQ file on the subject of what to know when driving in California.

FAQDRI.TXT (59,572 bytes) **T**

**CANCER HELP**—The Cancer Forum (GO CANCER) now features files from the National Cancer Institute's PDQ computer system, which provides up-to-date patient-oriented information on treatments for various forms of the disease. Each file details warning signs and detection methods, an explanation of the stages of the particular cancer, and an overview of the various treatment options at each stage, including current research and clinical trials. Information on contacting the NCI for questions is also present. The files are in Library 22, "Protocol Library." Search using the kind of cancer as keyword (e.g., LIVER or SKIN) or by the wild-card file name 20\*.TXT for a complete list. Files are generally 10,000–30,000 bytes in size. **T**

**GREEN THUMBS UP**—A (garden?) variety of how-to text, gorgeous nature images, and earthy programs await your modem in the Gardening Forum (GO GARDENING).

## Library 1, "New Uploads/Help"

**Window Garden**—With companion planting guide, this Windows program identifies year-round planting dates for locations in the U.S., the choice plants' common pests and diseases, and organic and traditional troubleshooting methods.

WGRDN1.ZIP (184,160 bytes) **W**

## Library 2, "NG Magazine Online"

**N.G. Articles**—This library contains ZIPped-text archives of articles from each issue of *National Gardening* magazine. Search the library with the wild-card file name below to bring up a list of files.

NG\*.ZIP (60,000–90,000 bytes each) **T**

**Look It Up Here**—The U.S. National Gardening Association offers up its huge searchable-database Horticultural Dictionary, the ultimate gardening resource, as freeware. Requires the Visual Basic runtime file VBRUN300.DLL, available in this library.

NGADCT.ZIP (1,908,666 bytes) **W**

## Library 3, "Vegetables"

**Just How Hot?**—This GIF image shows the relative Scoville Heat Unit ratings for one dozen common peppers, such as jalapeño and habaño.

PEPPER.GIF (10,786 bytes) **G**

## Library 4, "Herbs/Mushrooms"

**Herbage**—An unusual database program for DOS containing data on many kinds of plants from normal to super-exotic, based on two years of research. Info includes nutritional value, native range and habitat, traditional uses, and mail-order sources.

HERBAG.ZIP (200,305 bytes) **D**

## Library 7, "Roses"

**Gold Medal GIF**—A beautiful close-up of a Gold Medal rose covered with morning dew drops, seen seemingly in 3-D. Makes good wallpaper.

ROSEGM.GIF (122,366 bytes) **G**

## Library 11, "Tools/Books/Software"

**Icons for Gardeners**—A gallery of Windows icons related to digging in the dirt, including the garden gate, tools, a greenhouse, flowers, and a lawn mower.

GIGRDN.ZIP (25,481 bytes) **W**

**Garden Bits**—A graphic jigsaw puzzle challenging you to put the pieces together at three levels of difficulty. Has a good drag-and-drop interface.

GBITS.ZIP (423,300 bytes) **W**



### Library 14, "Houseplants/Greenhouses"

**A Houseplant Primer**—An article written by forum member Judy White for those with the plant-killing "black thumb," helping indoor-plant keepers through the basics: pots, fertilizer, watering, etc.

**HOUSE.TXT (8,443 bytes)** **T**

**Lay-on-Top Greenhouses**—A description of building an easy and inexpensive cold frame or small greenhouse to cover early bedding and garden plants, made from PVC piping and plastic sheets.

**PVCGRH.TXT (1,572 bytes)** **T**



**BEYOND THE ECONO-TEL**—The Inn and Lodging Forum (GO INNFORUM), home of information and advice about traveling by way of bed-and-breakfasts, features its Library 14, "Elegant Small Hotels," with more than 200 text files and a few GIFs (above) from Lanier Publishing International describing fine hotels in North America and the Caribbean that emulate this European form of lodging. ESH hallmarks are exquisite guest rooms and suites, inspired architecture, and very personal service. Each file gives a description of the hotel (and history, if appropriate) plus basic data you need: phone and fax numbers, room-rate code, credit-card acceptance, concierge and room service, nearby attractions, and available business and sports facilities. Search the library using the state, city (e.g., CALGARY), or country other than the U.S. (e.g., BARBADOS) as a keyword. You may also search by keywords representing desired surroundings or sports, such as BEACH, MOUNTAIN, DESERT, SKIING, or SPA. Files are a maximum of 4,000 bytes. **T**

**MONEY MATTERS**—Investors who utilize online and computer resources need look no further than the Investors Forum (GO INVFORUM) for the latest in PC tracking shareware and informative text files. Here are some popular downloads:

### Library 1, "Stocks/The Market"

**Excel Helper**—This "Beating the Dow" spreadsheet for Microsoft Excel 4.0 uses a method described in a book of the same name. Input data from a newspaper and the spreadsheet ranks the five cheapest of

the 10 highest-yielding Dow stocks.

**BEATDO.XLS (34,669 bytes)** **W**

**OPPM**—This comprehensive stock-charting and portfolio-management system was top-rated by a London firm. Tracks stocks, bonds, mutual funds, savings, and other assets and liabilities. Reports gains, losses, interest, dividends, etc. With intuitive menus and online help.

**OPPM60.ZIP (345,220 bytes)** **W**

**Simple Research**—A newspaper article by forum member Ned James describing how to use one's local public library to research stocks.

**RESEAR.TXT (8,571 bytes)** **T**

**ECON**—This econometric forecasting software predicts the S&P 500, T-bond and T-bill interest rates, gold prices, and inflation, in three-, six-, and 12-month spans from the present.

**ECON2.ZIP (461,952 bytes)** **D**

### Library 2, "Bonds/Fixed Income"

**EEBond**—Own savings bonds in Series E or EE, or U.S. Savings Notes? This program lets you value all bonds from 1942 to the present.

**EEBNDD.ZIP (507,207 bytes)** **D**

**Buying T-Bills**—These archived message threads discuss buying T-bills direct from the U.S. government through the Treasury Direct service.

**TBILL.FED (12,157 bytes)** **T**

### Library 5, "Mutual Funds"

**Fund Investor**—A versatile Windows portfolio manager with context-sensitive help, it allows downloading of quotes from CompuServe and interaction with host computers at Fidelity and Vanguard, maintaining records of all transactions and plotting your funds' progress.

**FUND21.ZIP (397,230 bytes)** **W**

**Mutual Interest Group**—A short text description of the Association of Mutual Fund Investors (AMFI), a nonprofit group dedicated to helping its members become better money managers.

**AMFI.TXT (1,468 bytes)** **T**

### Library 15, "The Novice Investor"

**Good to the Last DRIP**—A description of the Dividend Reinvestment Plans investing method for small investors, which permits them to buy one stock share at a time from blue-chip companies and avoid huge brokerage fees. ZIPped text.

**DRIPIN.ZIP (7,836 bytes)** **T**

**E-Books on Investing**—Two popular titles: Investment Strategies, a menu-based series of articles emphasizing a common-

sense, long-term approach; and Investing Basics, on making your money work harder in an era of low interest rates. For IBM PCs and compatibles.

**INCENT.ZIP (36,055 bytes)**

**INVEST.ZIP (99,242 bytes)** **D**

**MAC APPS**—MAUG's Macintosh Applications Forum (GO MACAP) is home to libraries full of shareware programs, including text editors, personal-information managers, and other categories. Recently popular files include:

### Library 8, "Multimedia"

**SoftAD**—A shell for creating software demos or interactive marketing programs. No programming required—just add PICT files and text info and you're done.

**SAD35.SEA (380,160 bytes)** **M**

### Library 9, "Graphics Tools"

**Debump**—A one-windowed program that simply lets you paste in a large image and shrink it by a factor of two, three, four, or five, using an anti-aliasing process that smooths the image as information is thrown out.

**DEBUMP.SIT (39,174 bytes)** **M**

### Library 15, "Misc. Applications"

**Living Desktop**—Brings your Mac to life by installing professionally designed artwork as your desktop background, changing art on a user-defined timer or manually. Freeware version with limited art set.

**LIVING.SEA (264,576 bytes)** **M**

**DiskCat**—A control panel/extension that catalogs files stored on diskettes. Using the Finder's Find option, users can quickly locate the correct disk holding the file for which they're looking.

**DISKCA.SIT (35,584 bytes)** **M**

**CalcOne**—Very simply, a desktop calculator that's four calculators in one: scientific, complex, financial, and unit-conversion.

**CALCON.SIT (62,336 bytes)** **M**

**PC PASTIMES**—Arcade games, puzzles, card games, and amusing graphics for DOS and Windows are perpetually the order of the day in the PC Fun Forum (GO PCFUN), a part of the PCNet forums. Here are some popular downloads from recent months:

### Library 2, "Arcade Games"

**Taxi Run**—A challenging game for the whole family. You pilot a yellow cab through smooth-scrolling city streets, picking up and dropping off passengers. Rotate road sections with the click of your mouse.

**TAXIRN.ZIP (300,544 bytes)** **D**



**One Must Fall 2097**—Epic MegaGames' futuristic thriller puts you in command of a giant robot. Great animation and stereo music and sound effects for all major sound cards.

10MF.ZIP (2,721,267 bytes) **D**

**Skunny Kart**—A multiplayer high-speed 3-D racing game with different racing modes, battle mode, "turbo lanes," pot-holes, heat-seeking missiles, and more. Supports SoundBlaster and joysticks.

KART14.ZIP (1,433,600 bytes) **W**

### Library 3, "Adventure Games"

**Nitemare 3-D**—This house-of-horror scenario continues the theme of the original HUGO games, with highly detailed and colorful VGA graphics and no gratuitous violence. Many puzzles to solve.

NITE3D.ZIP (933,178 bytes) **D**

### Library 4, "Music"

**PC Drummer**—A new version of the popular SoundBlaster-ready drum-machine program, with programmable patterns, instrument placement within the stereo range, and more percussive instruments.

PCDRUM.ZIP (145,909 bytes) **D**

**MusicEase**—A powerful music-score editor that lets you create, edit, and print music notation. WYSIWYG screen display shows exactly how finished professional-quality score will look.

MUSCEZ.ZIP (437,734 bytes) **D**

### Library 6, "General Fun & Games"

**1994 Pool**—A billiard game that's a little different: each level of play features objects such as a dragon, helicopter, bombs, fireballs, UFOs, and more. Advanced vector calculus makes game play highly realistic and addictive.

94POOL.ZIP (610,368 bytes) **D**

**Spider Run**—An animated logic puzzle game pitting you against the clock rotating web strands for a spider to run across. Quick thinking and strategy are a must.

SPIDER.ZIP (137,728 bytes) **D**

### Library 10, "Windows Fun"

**Air Bear**—The animated Coca-Cola polar bears take over your monitor, braving fierce snow and wind to fly through the air in this Windows screen saver.

SKIBEA.ZIP (74,546 bytes) **W**

**Fun Pack**—Seven great Windows games in one file: backgammon, bowling, Simon, Missile Command, Space Invaders, and more.

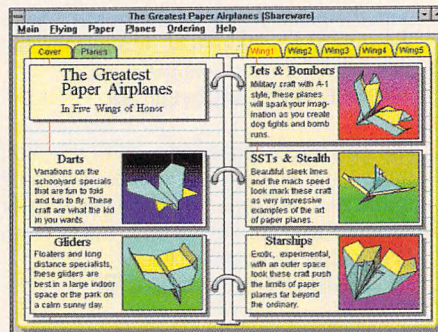
DBLOAK.ZIP (570,531 bytes) **W**

**Fractal Beauty**—This screen saver displays an infinite variety of fractals known as chaotic attractors, generating patterns from simple curves to intricate shapes, often resembling objects in the natural world.

CHAOTI.SCR (36,128 bytes) **W**

**Stereograms for Windows**—A program that converts monochrome bit-map images into random-dot stereograms, the three-dimensional pictures popularized in the *Magic Eye* book series.

ST\_G31.ZIP (168,762 bytes) **W**



**Greatest Paper Airplanes**—A Windows program using full interactive 3-D animation to fold extraordinary paper airplanes, with VCR-style fold controls, color printing of decorated plane designs, and animated tutorials about the history of flight and paper folding.

GPA.ZIP (795,371 bytes) **W**

**THE MEOW MIX**—The Time-Warner Dogs and Cats Forum (GO TWPETS), in addition to its uploads providing serious pet guidance on matters such as health, behavior, and breeding, features several file series that take a lighthearted look at dog and cat ownership.

### Library 2, "Behavior Hotline K9"

**Woof What?**—What's your dog trying to tell you with that *arf* or *ruff*? This file series looks at this as well as dog facial expressions and posture, why Fido is indelicate about where and what he sniffs, and how social order develops from dogs' first days as puppies. All from Warner Books' *How to Talk to Your Dog*. Search the library using the wild-card file name below.

DOGGY\*.TXT (5,000–14,000 bytes) **T**

### Library 8, "Feline Behavior"

**Cat People**—If you go by the Warner Book *How to Live With a Neurotic Cat Owner*, there are five kinds of feline attenders-to: the Huggers, the Live Alones, the Experts, the Animal Lovers, and the Dog Fanciers. Find out where you fit in and why your cat is more neurotic (and better) than you in this series; search this library with the wild-card file name below.

SBLN\*.TXT (1,500–5,000 bytes) **T**

### Library 17, "Art Gallery"

**The Famous and the Furry**—From a *Life*-magazine photo essay earlier this year comes this parade of 10 GIF images depicting celebrities and their four-legged family members. Includes Regis Philbin, George Burns, NBC *Today*-show host Katie Couric, and Senator Bob Dole; search the library with the wild-card file name below.

LFPE\*.GIF (80,000–150,000 bytes) **G**

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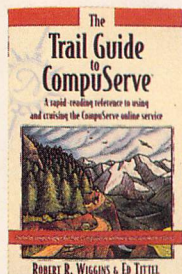
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Following are summaries of book reviews available for reading this month in Online Today. To read the complete reviews, use the GO command listed at the end of each summary.

## The Trail Guide to CompuServe



By Robert R. Wiggins and Ed Tittel  
Addison-Wesley, 1995  
243 pages, \$12.95 (softcover)

This concise guide to using CompuServe takes readers on a tour of the wild online frontier in a way that is literate, clear-cut, and

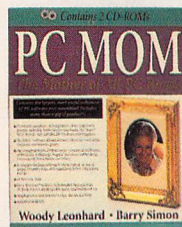
sensibly organized, says reviewer John Edwards. Git along, little modems, git along. *GO OLT-5010*

## The Online World: How to Profit From the Information Superhighway

By Mike Weaver and Odd de Presno  
Productive Publications, 1994  
302 pages, \$39.99 (softcover)

Written with an emphasis on international online offerings that are available through major online networks and services, this book provides extensive, although not exceptionally well designed, contents, says reviewer Sharon Kahn. *GO OLT-5040*

## PC Mom: The Mother of All PC Books



By Woody Leonhard and Barry Simon  
Addison-Wesley, 1995  
720 pages, \$49.95 (softcover)

Calling this book a real treat, reviewer Robert Sanchez says it's loaded with useful

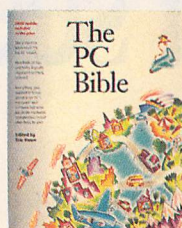
information and advice on such topics as understanding the innards of a PC, maintaining your computer's health, and finding the best shareware games. *PC Mom* is way cool. *GO OLT-5030*

## Boom! (Again)

By Ed Gustafson  
Abbot-Hill Publishing, 1994  
217 pages, \$23.95 (hardcover)

This close-up look at the health of the computer industry offers predictions and projections for the future that show a computer boom already well under way, says reviewer James Moran. *GO OLT-5060*

## The PC Bible



Edited by Eric Knorr  
Peachpit Press, 1994  
885 pages, \$24.95 (softcover)

This book provides information on every conceivable aspect of PC operations, from selecting and in-

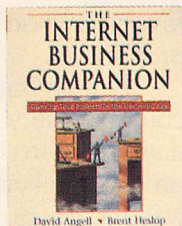
stalling hardware to troubleshooting to descriptions of essential DOS and Windows software. Reviewer Michael R. Naver says there's not much a PC user could wish for that isn't covered succinctly, accurately, and helpfully. *GO OLT-5050*

## Fundamental Photoshop (Second Edition)

By Adele Droblas Greenberg and Seth Greenberg  
Osborne/McGraw-Hill, 1994  
674 pages, \$29.95 (softcover)

This new expanded version, covering Adobe Photoshop 3.0, is deemed the best book on the topic by reviewer Anthony Watkins, who recommends it to anyone interested in digital imaging. *GO OLT-5070*

## The Internet Business Companion: Growing Your Business in the Electronic Age



By David Angell and Brent Heslop  
Addison-Wesley, 1994  
242 pages, \$19.95 (softcover)

This book offers creative techniques for developing and implementing cost-effective

business strategies in tune with the electronic age. Reviewer William J. Lynott says it should benefit those who want to use the Internet for business. *GO OLT-5020*

## Microsoft Word 6 for the Macintosh Made Easy: The Basics and Beyond

By Paul Hoffman  
Osborne/McGraw-Hill, 1994  
438 pages, \$19.95 (softcover)

Best suited for new Word users, this book is based entirely on a series of tutorial lessons that structures the learning process. While effective for Word 6 novices, it's not as useful as a reference tool, says reviewer Franklyn Jones. *GO OLT-5080*

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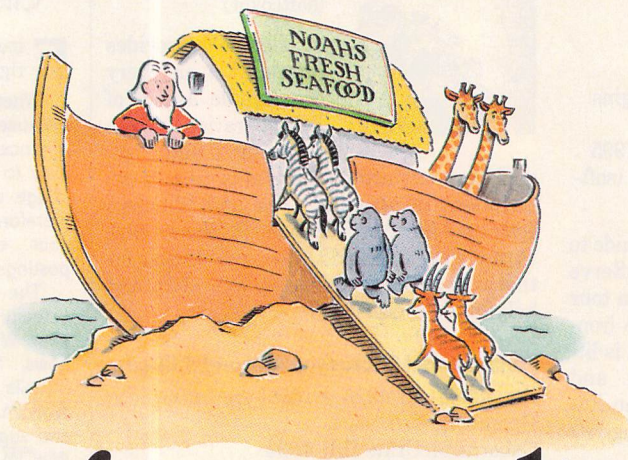
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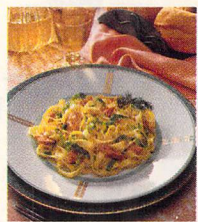
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Check out The Mall's Electronic Shopping Extravaganza still running through June 30th. You could win the Grand Prize Package, compliments of Home Shopping Values (GO HSV). Plus, win prizes from Premier Dining (GO DINE) and Hanes L'eggs Bali Playtex (GO HANES). See page 7.

This month we welcome the new UK Shopping Centre to CompuServe! (GO MALL) You'll find leading UK retailers like Past Times (GO PASTTIMES) and Virgin (GO MEGASTORE).

We also welcome eServ Travel Value Network (GO ESERV) and Softdisk Publishing Download Superstore (GO SPDL) to The Electronic Mall. You can shop these new stores — and any Mall store — connect-free, 24 hours a day!

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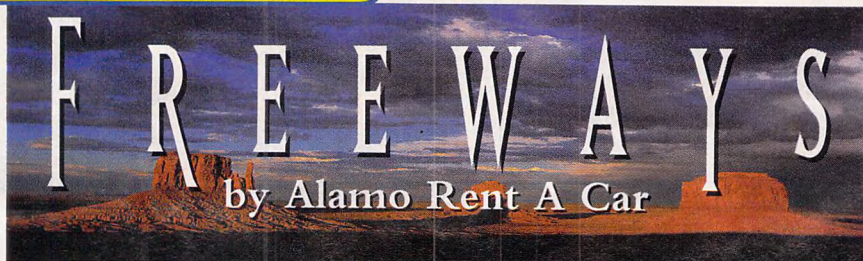
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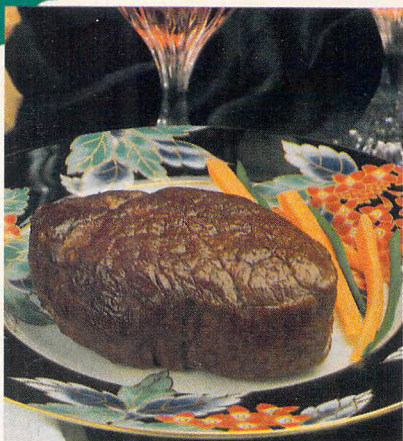
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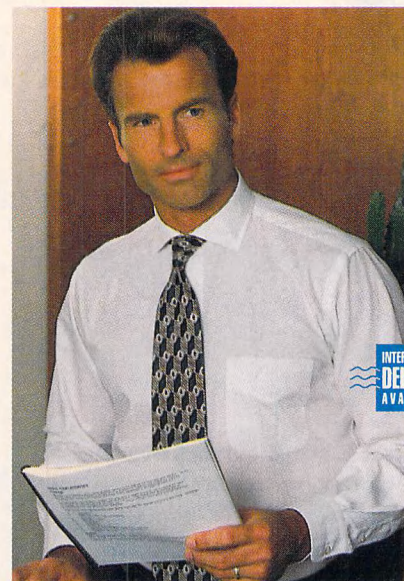
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### Keep Dad cool in the Cutaway Spread Shirt from Paul Fredrick.

He'll enjoy greeting summer in this handsome new white 100% Egyptian cotton broadcloth dress shirt with the widest collar spread yet (5-1/4"). We call it the "Cutaway Spread" and it's already a new favorite. Button cuffs. Cuff monogram, add \$5.

**PAUL FREDRICK MENSTYLE. GO PFS**

**CUTAWAY SPREAD SHIRT \$29.50**

### Dress him in pure comfort from Brooks Brothers.

Dad will love our Brooks Brothers' soft and comfortable Washed Golden Fleece Knits in oatmeal heather, moss, redwood, twilight blue, or terra-cotta. Embroidered with our Golden Fleece Crest of pure quality. Gift box and Father's Day note included at your request.

**BROOKS BROTHERS. GO BR**

**WASHED GOLDEN FLEECE  
KNITS (#104P) \$38 ea.**



### Take a musical adventure and get up to \$10 in connect-time credits!

Narada introduces David Arkenstone's spectacular new release, *Quest of the Dream Warrior*, a bold electronic-orchestral voyage following in the tradition of *In the Wake of the Wind*. Get a \$5 connect-time credit with the purchase of each of these storytelling musical fantasies!

**NARADA PRODUCTIONS. GO NP**



# ELECTRONIC SHOPPING EXTRAVAGANZA



## Win a \$1,000 Grand Prize Package from Home Shopping Values!

Get set for fun in The Mall's Electronic Shopping Extravaganza Contest! Each week through June 30th, 1995, go online and answer five multiple-choice questions. Each correct answer enters you in a random drawing for the Grand Prize Package — four prizes totaling over \$1,000, compliments of Home Shopping Values (GO HSV)!

### Magnavox Five-Disc CD Changer

50-track memory programming, infrared remote.  
Retail value \$299.95

### Sound Design Music Center with Wireless Remote Control

Dual cassette decks, dynamic speakers, equalizer.  
Retail value \$399.95



### Yorx Portable TV/Cassette/AM/FM Radio

4-1/2" B/W TV, cassette player, AM/FM radio.  
Retail value \$179.95

### Wireless Rechargeable Infrared Headphones

Transmitter plugs into TV or stereo. 50-ft. range.  
Retail value \$199



## THE COMPUSERVE COMMITMENT TO ELECTRONIC SHOPPING

*As a CompuServe shopper, you are on the leading edge, shopping today the way the rest of the world will shop in years to come — electronically! We are continually striving to expand our roster of stores to provide you with the best products, services and information available. We welcome your comments and suggestions.*  
GO MALLMANAGER

## Win More Prizes!

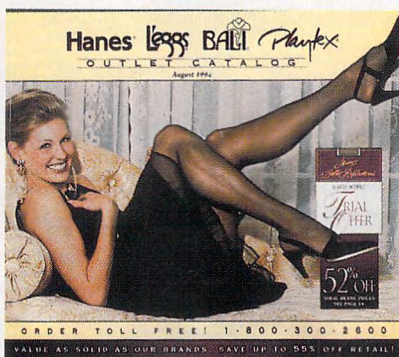
The Mall's Electronic Shopping Extravaganza includes contests from Premier Dining (GO DINE) and Hanes L'eggs Bali Playtex (GO HANES), The Mac Zone/PC Zone (GO MZ) and AutoVantage Online (GO AV). Go online for details. Contests end June 30th, so enter soon for your chance to win!



## Win a One-Year Membership to Premier Dining!

Save money when you dine out with Premier Dining. Features two-for-one dining at over 9,000 participating restaurants across the United States. A \$49 value. Details online.

**PREMIER DINING. GO DINE**



## GO HANES and Win Great Prizes!

Shop the Hanes® L'eggs® Bali® Playtex® online store to find great deals and win valuable prizes. No purchase is necessary to enter. Go online for all the details.

**HANES L'EGGS BALI PLAYTEX. GO HANES**

## SHOPPERS GUIDE

## Don't Miss Your Opportunity to Shop for Free!

The Free Offer Outlet, the hottest new store on CompuServe's Electronic Mall, opens June 1st, 1995. With valuable **free** offers; samples and gifts from top catalogs; magazines; travel merchants; video, record and book clubs; software distributors; business opportunity marketers and more.

**THE FREE OFFER OUTLET. GO FREEOUTLET**





# MALL REFERENCE

A wide world of shopping  
at your fingertips.

Shopping has never been easier.

The Electronic Mall puts over

150 stores at your fingertips.

You can shop free 24 hours a day,

365 days a year, for a wide array

of products, information and

services. Use the handy directory

on these two pages for a complete

listing by category of Mall stores

and their GO commands. Then

GO MALL to shop online or to find

worldwide shipping information,

payment options, a detailed product

index, a directory of print catalogs,

and the latest Mall news, events and

contests. GO MALL

THE  
ELECTRONIC  
M·A·L·L®

Shopping The Electronic Mall is connect-free, 24 hours  
a day, 365 days a year!

## APPAREL/DEPT. STORES

AC	Americana Clothing
AU	Austad's Golf •
BR	Brooks Brothers
HS	Hammacher Schlemmer
LEGGS	Hanes L'eggs Bali Playtex JMS •
HSV	Home Shopping Values •
JCP	JCPenney ■
LANDS	Lands' End
PFS	Paul Fredrick MenStyle
SR	Sears Shop At Home •
SVCMER	Service Merchandise ■
SA	Shoppers Advantage Online •
SHOES	Stuart McGuire Shoes •

## ARTS/MUSIC/VIDEO

CD	BMG Music Service •
BOT	Books on Tape •
HIFI	Cambridge SoundWorks
FREECD	Columbia House •
CCV	Critics' Choice Video •
ESTORE	Entertainment Drive Ltd. •
EWK	Entertainment Works ■
JR	Justice Records
LE	The Laser's Edge
MMA	The Metropolitan Museum of Art
THEPLA	The Music Place
NP	Narada Productions
PM	People Store
SGM	Sega Mall
VID	Time Warner Viewer's Edge •

▼ MEGAST Virgin

## AUTOMOBILES

AI	Alamo Freeways
AI	Automobile Information Center
AQ	AutoQuot-R
ATV	AutoVantage Online •
CMC	Cadillac Motor Car •
ESCORT	The Escort Store
FC	Ford Credit ■
FORD	Ford Electronic Showroom ■
FMC	Ford Motor Company ■
GY	Goodyear Tire & Rubber Co. •
LM	Lincoln-Mercury Electronic Showroom ■
NISSAN	Nissan Interactive
PON	Pontiac Showroom •

## BOOKS/PERIODICALS

AB	Audio Book Club
BOT	Books On Tape •
CBK	CompuBooks
DB	Data Based Advisor
DFP	Detroit Free Press
ENT	Entrepreneur Group •
PWM	Exec/Direct
FM	The FORTUNE Store
IW	IndustryWeek Magazine
IUM	Information USA
IB	Investor's Business Daily
LOS	Library of Science Book Club •
ZD	MacUser
MH	McGraw-Hill On-Line Bookstore
MSP	Microsoft Press
NB	Newbridge Book Clubs
NN	NewsNet ■
PCC	PC/Computing
ZD	PC Magazine
PCB	PC Publications
PM	The People Magazine Store
PRC	PRC Database Publishing
RANDOM	Random House Electronic Publishing
BK	Small Computer Book Club •
SIA	Sports Illustrated Insider Authentics
TWEPB	Time Warner Elect. Pub. Bookstore
USM	U.S. News & World Report
WGL	WG&L/Auerbach
JW	Wiley Pro-Shop •
WS	Windows Sources
ZD	Ziff-Davis Publishing Online

## CLUBS/MEMBERSHIPS/ SPECIAL OFFERS

AV	AutoVantage Online •
CD	BMG Music Service •
FREECD	Columbia House •
▼ FREEQU	The Free Offer Outlet ★
LOS	Library of Science Book Club •
NB	Newbridge Book Clubs
DINE	Premier Dining •
SA	Shoppers Advantage Online •
BK	Small Computer Book Club •
TA	Travelers Advantage •

## COMPUTER HARDWARE/ SUPPLIES

DP	AT&T Online Store ■
MM	A2Z Multimedia SuperShop
CE	Computer Express
CA	Concord Direct
DA	Dalco Computer Electronics
DD	Digital PC Store •
JDR	JDR Microdevices
MZ	Mac Zone/PC Zone
MW	MacWarehouse
MCW	MicroWarehouse
MCS	Mission Control Software
PA	Parsons Technology
PCA	PC Catalog •
SR	Sears Shop At Home •
▼ VEK	Vektron Online

## COMPUTER SOFTWARE

MM	A2Z Multimedia SuperShop
ABSOLU	Absolut Museum
BB	Broderbund
CF	CheckFree Corporation •
ORDER	CompuServe Store ★
CE	Computer Express
DD	Digital PC Store •
EP	Epic MegaGames
PWM	Exec/Direct
HTS	Hybrid Technical Systems
IBMPSP	IBM Personal Software Products •
JDR	JDR Microdevices
LTM	The Lotus Organizer Store •
MZ	Mac Zone/PC Zone
MW	MacWarehouse
MCW	MicroWarehouse
MCS	Mission Control Software
PA	Parsons Technology
PCA	PC Catalog •
SAF	Safeware Computer Insurance
SD	Shareware Depot ■
SI	Sierra On-Line
SP	Softdisk Publishing
▼ SPDL	Softdisk Publishing Download Superstore
▼ VEK	Vektron Online
▼ MEGAST	Virgin





## FINANCE/INSURANCE/ REAL ESTATE

BNBG	Bull & Bear •
INC	Business Incorporating Guide
CTB	Centerbank Mortgage •
CF	CheckFree Corporation •
CMS	CMS Home Mortgage Corp. •
CNL	CNL Customer Direct •
CORP	The Company Corporation
CARD	CompuServe Visa Store •
CIC	Continental Insurancecenter •
CRE	CREDENTIALS SERVICES •
DR	Dreyfus Corporation •
FC	Ford Credit ■
HRB	H&R Block •
HF	HomeFinder by AMS ■
IB	Investor's Business Daily •
TKR	Max Ule Discount Brokerage ★
RELO	Relocation Network •
SAF	Safeware Computer Insurance
TC	Twentieth Century Mutual Funds



## GO MALL



## GIFTS/FLOWERS/ GOURMET FOODS

FGH	1-800-Flowers and Gifthouse
AIF	Adventures in Food ★
BH	Breton Harbor Gift Services
COF	Coffee Anyone ???
ETHELM	Ethel M. Chocolates
FFS	Florida Fruit Shippers ★
FS	Flower Stop •
FTD	FTD ONLINE
GS	The Gift Sender
GIM	Gimmee Jimmy's Cookies
GMR	Green Mountain Coffee Roasters
HAL	Hallmark Connections •
HAM	HoneyBaked Ham Company •
LBW	Liquor by Wire
MMA	The Metropolitan Museum of Art
OS	Omaha Steaks
▼ PASTTI	Past Times
WK	Walter Knoll Florist

## HOBBIES/TOYS

CAMP	CAMPOR •
GW	Garrett Wade Woodworking
SGM	Sega Mall
TOM	Tomorrow's Child

## HOUSEWARES

BSET	Bassett Furniture
CC	Chef's Catalog •
BEDS	Dial-A-Mattress •
HSV	Home Shopping Values •
JCP	JCPenney ■
SA	Shoppers Advantage Online •
HM	Sutherland's HouseMart

## MERCHANDISE/ ELECTRONICS

HIFI	Cambridge SoundWorks
CA	Concord Direct ★
CFD	Crutchfield Electronics •
ESCORT	The Escort Store •
▼ FREEOU	The Free Offer Outlet ★
GTE	GTE Phone Mart
HS	Hammacher Schlemmer
HSV	Home Shopping Values •
HTS	Hybrid Technical Systems •
JCP	JCPenney ■
MCP	Millennium Cellular Products •
SA	Shoppers Advantage Online •
SVCMER	Service Merchandise ■
SUN	Sunglasses, Shavers & More

## OFFICE SUPPLIES/ BUSINESS SERVICES

INC	Business Incorporating Guide
CORP	The Company Corporation
ORDER	CompuServe Store ★
CARD	CompuServe Visa Store •
HRB	H&R Block •
TTS	H&R Block Tax Training School •
HF	HomeFinder by AMS ■
IUM	Information USA
▼ OFCMAX	OfficeMax OnLine ★
PWP	Penny Wise Custom Print Shop •
PW	Penny Wise Office Products •
RELO	Relocation Network •
SUCCESS	SUCCESStools
UP	University of Phoenix •
UPS	UPS Worldwide Services



## PUBLIC SERVICES/ CHARITIES

CCF	Christian Children's Fund
UW	United Way Online •

## SPORTS/FITNESS/HEALTH

AC	Americana Clothing
AU	Austad's Golf •
CAMP	CAMPOR ■
CL	Contact Lens Supply
RX	Health and Vitamin Express
LENS	Lens Express
SDV	SDV Vitamins ★
SHOES	Stuart McGuire Shoes •

## TRAVEL/VACATIONS

AF	Air France ■
AMZ	Amazing Vacations by Rosenbluth Vacations
CRUISE	Compu-Cruise by Rosenbluth
▼ ESERV	eServ Travel Value Network •
HYATT	Hyatt International
TA	Travelers Advantage •



### HOW TO SHOP:

Shopping The Electronic Mall has never been easier! If you're using the latest version of *CompuServe Information Manager (CIM)* software, available for DOS, Macintosh and Windows, you'll find everything on one convenient screen. With the touch of a finger you can browse product descriptions, flip back and forth between products, view full-color images, and order right on the spot. You can even store your name, address and credit card information in the database, so you don't have to type it in each time. To shop the Mall that never closes, GO MALL.

### SHIPPING:

Shopping in most stores in The Electronic Mall is available to CompuServe members around the world. Certain postal, national and trade laws prevent certain Electronic Mall merchants from being able to ship their goods to all areas. The following guide will help you with your store selection:

- U.S. Only
- U.S. and Canada

- ★ Please go online for details
- All other merchants ship worldwide.

▼ The Electronic Mall is pleased to welcome our newest merchants!





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The HiNote notebook blends technical brilliance with ergonomic sophistication. Enjoy local bus video graphics, user-upgradeable hard drive and a wide array of processors — all value-priced. Premier DEC Passport service is included for one year, with free pickup, repair and return in two business days! Visit online for complete details and a CompuServe-only package.

**DIGITAL PC STORE. GO DD**

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**BRODERBUND SOFTWARE. GO BB**

**ALIEN TALES**  
REGULAR PRICE \$39.95  
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### Shop the CompuServe Store for super savings on *CompuServe Navigator*!

Take a trip with the hour-long *CompuServe Navigator* video, and learn how to save money by managing your online time. Then put your computer on "cruise control" with *CompuServe Navigator* software — for Windows or Mac. Retrieve and send messages, set up sessions and save connect-time — automatically! *Now on sale!*

**COMPUERVE STORE. GO ORDER**

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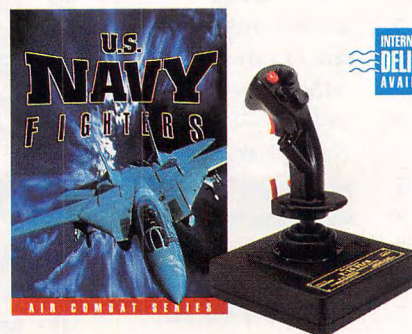
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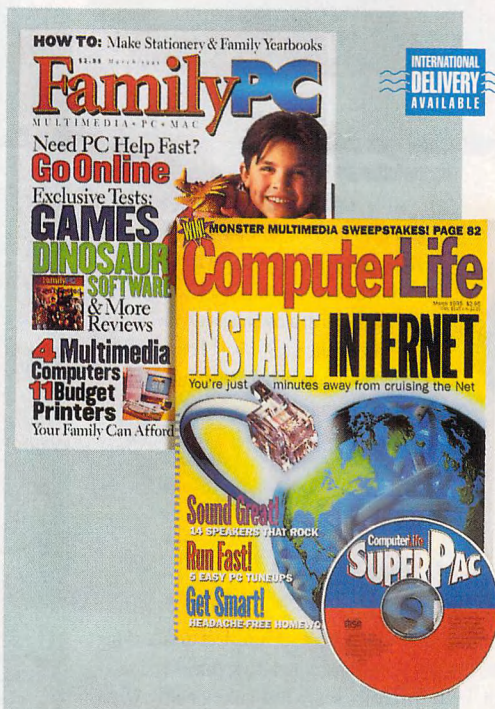


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DELIVERY  
AVAILABLE

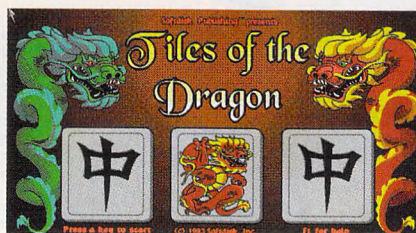
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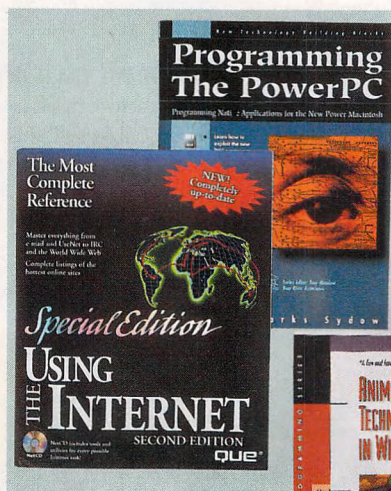
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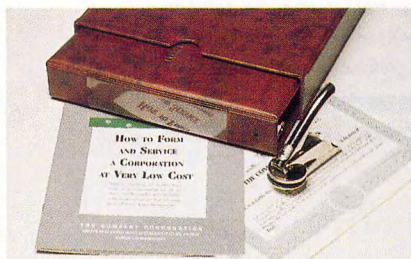




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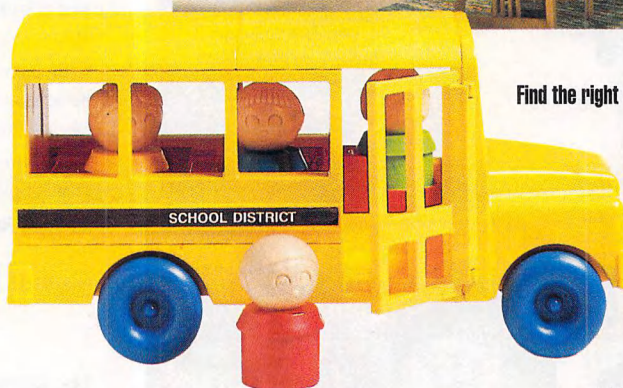
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**HOMEFINDER BY AMS. GO HF**



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**TOMORROW'S CHILD. GO TOM**





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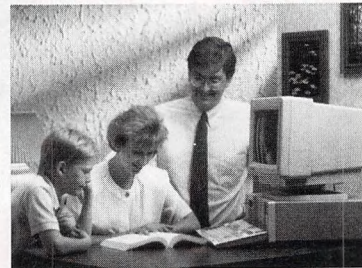
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Marketing By Design Inc., invites you to visit us on the World Wide Web (WWW). This month MBD is featuring an Internet design and cap. We also offer NBA, NFL, NHL and MLB caps. For a FREE test of the CompuServe Web Browser, **GO NETLAUNCH** and use the following URL: <http://www.ip.net/shops/MBD-INTERNET-CAPS> (This URL may be used with other WEB browsers). Contact us at 800/947-8229 or E-mail [mkgbydsn@ix.netcom.com](mailto:mkgbydsn@ix.netcom.com).

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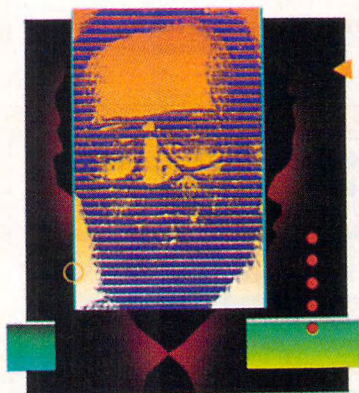
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## How to Get the Most Out of CompuServe

with Charles Bowen



Charles Bowen is a contributing editor of *CompuServe Magazine*, author of *CompuServe From A to Z*, and co-author of *How to Get the Most Out of CompuServe*, both from Random House.

**I read something about the work of nationally syndicated newspaper columnists being available online. Where do I find the columnists?**

**George E. Gilmore IV**  
Waukesha, Wisconsin

To reach the syndicated newspaper columns from United Features, GO COLUMNS. Featured are daily and weekly columns from Mikhail Gorbachev, Cokie and Steven Roberts, Jack Anderson, Marilyn Beck and Stacy Smith, Alan Dershowitz, and Harvey MacKay, as well as "Miss Manners," "Aces on Bridge," "The Housing Scene," "The Medical Advisory," "Tune In Tonight," and "You Be the Critic."

**I'm looking for a way to get information on dividends from U.S. companies. Any suggestions?**

**Hans-Peter Distel**  
Kornwestheim, Germany

What you're looking for is available online if you enter GO DIVIDENDS. You'll be prompted for a company ticker and the starting date or number of payment periods. Also, you might check in with the Investors Forum (GO INVFORUM), where the *real* financial wizards hang out.

**One of the areas on CompuServe I cherish most is the AP Online news service (GO APONLINE), where I often scan through the headlines for world news. I'm wondering if I am able to search through all the headlines for a specific term.**

**Diya M. Al-Sarraj**  
Edmonton, Alberta, Canada

Searching is not an option in the AP Online feature, but have you looked into NewsGrid (GO NEWSGRID)? It enables keyword searching and offers a wide selection of news resources. Each business day, NewsGrid's editors capture thousands of stories from the world's major wire services, including Inter Press Service, PR Newswire, The Business Wire, Agence France Presse (France), Deutsche Presse-Agentur (Germany), Kyodo (Japan), Xinhua (China), and more. During business hours, a new story is added to the database about every two minutes.

**I'm interested in creating images with the POV-Ray program. Where can I find information about it?**

**Earl J. Phillips**  
Columbus, Georgia

Check in with the good folks in the Graphics Developers Forum (GO GRAPHDEV), which has sections devoted to POV-Ray, ray-trace graphics, and related subjects.

**How can I find a listing of Factory Outlet Stores?**

**Gene T. Saunders**  
Dallas, Texas

The Biz\*File Yellow Pages database (GO BIZFILE) might be your best bet. It provides access to names, addresses, and phone numbers for more than 10 million U.S. and Canadian business listings, and contains data including business name, address, phone number, and length of time each business has been listed in the source directory. Biz\*File is surcharged at \$15 an hour. I don't know how extensive the list is—it depends on how many businesses choose to list themselves in that particular category. For instance, I just checked for "Factory Outlets" in the Dallas area and found 10 entries.

Send questions to CompuServe User ID number 70007,411. If your question is answered in this column, we'll apply a \$25 connect credit to your CompuServe account.



## June Mensa Puzzler

This month's Mensa Puzzler was submitted by CompuServe member Markus Schwaiger. You'll find the answer in the Mensa Forum's News Flash (GO MENSA). Answers to past Puzzlers are located in the forum's Library 13, "Puns/Jokes/Puzzles."

Try to continue the following column of numbers:

1  
11  
21  
1211  
111221  
312211  
13112221  
1113213211

Do you have a Puzzler that you'd like to share with CM readers? Send your entry of no more than five brief puzzles (with answers) to: Puzzlers, *CompuServe Magazine*, P.O. Box 20212, Columbus, OH 43220. Include your full name, address, daytime telephone number, and CompuServe User ID number. Puzzles that are not sensitive to character positioning may be sent by CompuServe Mail to User ID number 76004,3302. If your puzzle is used here, we'll credit \$35 to your CompuServe account.

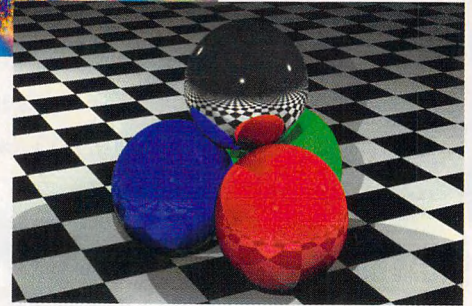


## Graphic of the Month



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A Mill Pond Press Image

If you have a favorite image on CompuServe, consider nominating it as a Graphic of the Month. To do so, simply GO GRFMONT and fill out the online survey. If the image you nominate is selected as the Graphic of the Month, you and the image uploader/creator will receive a \$25 CompuServe account credit. Image uploaders/creators are permitted to nominate themselves, but only one \$25 credit is applied to each member.



CM's Graphic of the Month for June is a GIF image of an original acrylic-on-canvas piece, *Passage: Verge*, by Michael Whelan. The image is one in Whelan's *Passage* series, which explores near-death experiences. Individuals surviving such experiences have often described reaching a point of no return and having the opportunity to continue or turn back. "Verge is a symbolic representation of one pausing before the brink, having a last look back and wondering," says Whelan. The image is located in the Fine Art Forum (GO FINEART), Library 18, "Mill Pond Press," as file AWN02.GIF (178,779 bytes). The image resolution is 444 x 600.

Whelan's paintings have appeared on the covers of best-selling books such as Isaac Asimov's *Foundation* and *Robot* novels and the *Dragonriders of Pern* series by Anne McCaffrey. His original works have been displayed and sold at galleries and museums throughout the world.

This month's runners-up are *The Way*, by L. Kerry Mitchell, found in the African-American Culture and Arts Forum (GO AFRO), Library 18, "Spirituality!" as file THEWAY.GIF (213,492 bytes); and *4 Mirror Balls Stacked on a Checkboard*, by 15-year-old Andrew Seigner, found in the Sight & Sound Forum (GO SSFORUM), Library 3, "Graphics Storeroom," as file BALLS.GIF (46,539 bytes).

### MEMBER ESSAY

## A Virtuous Gift Rewarding Dad for His Life Lessons

My father taught me many years ago that hard work is rewarded and that we are responsible for our actions. In an effort to get him a unique and meaningful Father's Day gift last year, I decided to buy him William Bennett's *The Book of Virtues*. In a late-night brainstorm I also decided that I would like to get an autographed copy of the book. The question was, how do I get an autographed copy? As a regular user of CompuServe at work, I decided to poke around and see if a forum could assist me. I logged onto the Political Debate Forum (GO POLITICS) and found a section for "Empower America," with which Mr. Bennett is affiliated. A message to the sysop brought a response the next day: Buy the book anywhere, send it with a brief note to Mr. Bennett at Empower America's address, and he would be more than happy to sign it. That evening I purchased the book, wrote a letter to Mr. Bennett describing the reason for the auto-

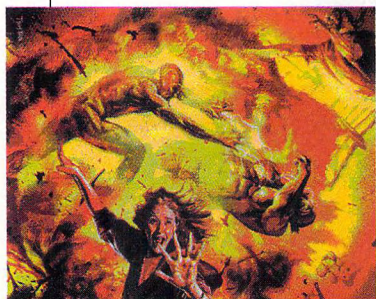
graph request, and packed it off with a return mailer addressed and properly postaged. In less than one week I had a book for my father, not just autographed but with a very warm personal message recounting some of the virtues I described in my letter to Mr. Bennett. My father was quite pleased with the book, but especially moved by the personal message. He was also entertained that this all came about because of the information superhighway.

Joseph C. Landwehr  
Lima, Ohio

Compete for \$50 worth of connect-time credit in *CompuServe Magazine's* monthly Member Essay contest. Write a 200-word essay describing an original way you've used the Information Service and send it to CompuServe User ID number 76004,3302. Include your full name and address.



# UPDATE



## Marvelous Art

Comic-book fans can download cover art, minus lettering, from Marvel Comics' *Blockbuster*, the first book in its Tale of the Marvel series, in the Comics Publishers Forum. Both front-cover (shown above) and back-cover art are available in the forum's Library 4, "Marvel Comics," as files BLOCKB.GIF and BLOCKB2.GIF. In the forum, Marvel and other legendary publishers offer preview art, interactive press kits, news of upcoming releases, a chance to interact with company insiders, and more. GO COMICPUB



## Midwest Escape

Get the lowdown on the Buckeye State—visit the Ohio Travel Forum, sponsored by the Ohio Division of Travel and Tourism. View images of attractions such as Cedar Point amusement park's Magnum roller coaster (shown above). Also, take advantage of travel specials and get information about cities, family activities, and more. GO OHIO

**CompuServe's forums are implementing new features.** File names can now have up to eight characters, rather than six, in the prefix, and three in the suffix (as in the fictional file name NEWFILES.TXT), and uploader names are now part of file descriptions. In addition, CompuServe Mail sent from an extended-services forum will be free of postage charges, and messages that scroll or are sent by a sysop from a forum to your mailbox in less than one week of posting will be sent free of postage charges. Download NEWFOR.TXT and FORFAQ.TXT from the CompuServe Help Forum for details. GO HELPFORUM

**Access breaking business news in the CNN Business Forum**, staffed by CNN's award-winning journalists. Look to forum News Flashes for summaries of top stories being covered by CNN. Libraries contain transcripts of CNN business programming, stories, reports on business trends, investing tips, closing numbers for key financial markets, and graphics for use in multimedia presentations. GO BIZNEWS

**AARP members receive a free hour of access each month** to the new AARP Online Forum. Run by the American Association of Retired Persons, the forum offers CompuServers of all ages information and discussion on topics including health, finance, home, caregiving, travel, and work; the most current news from AARP; a list of AARP membership benefits; the organization's monthly bulletin; and more. To get your free hour, fill out the "Join AARP Forum Club" questionnaire on the AARP main menu. GO AARP

**Stay abreast of computer-industry happenings by reading Newswatch**, a new weekly feature in *PC Magazine's* Editorial Forum on ZiffNet. Newswatch offers highlights of computer news reported in publications such as *The New York Times* and *Fortune*. Search for files using the keyword NEWSWATCH. To access the forum, GO EDITOR. For details on ZiffNet membership, GO ZIFFMEM.

**From weapons technology to war strategy, learn about the military in depth** in the Military Forum's "Military Studies" section. Operated by the U.S. National Defense/Foreign Affairs Network for Educational Telecomputing Inc., the section provides resources for students, scholars, military and government officers, and others on the U.S. military, U.S. defense, and foreign affairs. GO MILFORUM

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